A Complete Bibliography of *IEEE Transactions on Computers* (2020–2029)

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA

Tel: +1 801 581 5254
FAX: +1 801 581 4148

E-mail: `beebe@math.utah.edu`, `beebe@acm.org`, `beebe@computer.org` (Internet)
WWW URL: `https://www.math.utah.edu/~beebe/`

15 May 2024
Version 1.50

Title word cross-reference

2.5 [NAP+20]. 2^m [GMZ22]. 3 [FMM+21, LSCX20, LQY+20, WLQ+21, WZD+20]. $8k$ [AJ22]. ^{2} [HYW+21]. ^{RT} [JYF+23]. $\mathcal{O}(n)$ [EDGR+24]. D [LZC+21]. $GF(2^m)$ [Ima21]. $\mathbf{FiLIP_{DSM}}$ [RKMR23]. k [ZWWY22, ZLC+23b]. $\mathbf{GF}(2^m)$ [ERKP21]. n [ZLC+23b]. $O(N)$ [GR23]. p^k [Koç20]. π [LQY+20]. `PoisonedGNN` [APH+23].

-Ary [ZLC+23b]. **-BA** [LQY+20]. **-bit** [AJ22]. **-Cubes** [ZLC+23b]. **-D** [WLQ+21]. **-Inspired** [HXL+23]. **-Level** [ZWWY22]. **-MAB** [ZWWY22]. **-Tree** [WBJC22].

128a [DPS22]. **16-bit** [AJ22]. **1687** [IIEKS24].

2 [HYW+21, PC24, SAJA21]. **2-D** [PC24]. **2-Way** [PLB22]. **2.0** [MDR+24]. **2D** [SM24]. **2D/3D** [SM24].

3 [FZM+23, LZC+21, SCL+24]. **3-** [LZC+21]. **3-D** [FZM+23]. **3D** [LL23, PLZ+23, PZY+23, SM24, TKN23, WHL+23, WHK24]. **3DIC** [SRB23]. **3RSeT** [CFA22].

4-Way [NS22].

5G [RPS+21].

61131 [SCL+24]. **61131-3** [SCL+24]. **64-Bit** [MDPM24].

8 [LFP+22].

A3C [ZHYJ21]. **A3C-DO** [ZHYJ21]. **AAPP** [LXW+23]. **ABE** [CLZG22]. **Abstraction** [WDQ+22]. **Abstractions** [KMH+23]. **Accelerate** [LY21]. **Accelerated** [JCZ+23, WYB+24, SYL+23]. **Accelerating** [FWZ+21, FNS+22, GXL+24, HLL+20, HZM+23, JCZ+23, KCL+20, KPD+23, LY20, MHM+23, SIR20, SZL+22, SWR+23, SZL+24, XLW+20, ZLL+23, ZMS+23, ZLZ+23]. **Acceleration** [BCBS21, DPQK+23, FAFK21, FAKM22, GWG+24, GWX+23, KSKK23, KBQ+23, KXGS22, KYS+22, LQC+22, LDF+24, LWYJ23, MC23, SYW+22, TDZ+22, WGL+20, ZCR22, ZGWY22]. **Accelerations** [WYZ+22]. **Accelerative** [LXW+23]. **Accelerator** [ACG20, AGQ+23, CNOS22, ESW+23, EAMK22, FB20, GSY+20, HPJK22, HLQ+23, JLZ21, KKS+22, KPL+22, KAWR23, KJK24, KLR23, LWL+21, LL23, LQY+20, LHL+23, LGW+22, NKeSK+23, NKL+23, RPB+23, SM22, SM24, TRV20, WGM+20, YYCR24, YLC+21, YWC+24, ZCR23, ZLWJ23, ZLL+24]. **Accelerators** [AB20, AC22, BFG+21, CAC+22, DMD+23, JLY+21, KKH22, KBR+23, LLY22, MHJ+21, MCS+22, PAR+22, PN24, QWK20, SKK23, TPWY23, ZAS+22, Lu21]. **Access** [CKJ+22, DQ23, HPJK22, HJYL22, JWS+23, LV23, RPB+23, RMKO23, WLW+22a, WLY+23, ddAPdS21]. **Accesses** [HYS+20, SAG22]. **Account** [BHW+23]. **Account-Model** [BHW+23]. **Accumulate** [SNT22, ZCK20]. **Accuracy** [AMM21, DA22, SNT22]. **Accurate** [BAM+24, BCMT23, DYJ20, SMZ+20, TTG+23, USS+21]. **aChain** [WPL+23]. **Achieving** [AG24, SZHB21, XQC+22]. **Across** [WGD+22]. **Active** [EDGR+24, MHS+20]. **Acyclic** [MBP21]. **Adapt** [HZR+23]. **Adaptation** [BSM21, OAC+21, SBP+20, SZ22]. **Adapting** [ZLL+23, ZHL+24]. **Adaptive** [APV22, BCBS21, BJMKK23, CXL+23, DSK23, DPS+20, FLS20, FWZ+21, HLS+23a, HWC+22a, HBB+21, IIEKS24, KKKC20, KLC20, LL21, LHXH22, LXW+23, MLW+23, NK22, NHW+24, OAB+23, PLZ+23, PYDG22, QWT+23, STZ+24, SMY22, TKN23, WCB23, YLT+23, YLL+24, YHV+21, ZZG20, ZGQ+22, ZCC+23]. **Adaptive-Length** [FLS20]. **Adaptively** [BB22]. **AdaptMD** [YLL+24]. **ADC** [KJK24]. **ADC-Free** [KJK24]. **Adder** [JYM20]. **Adder/Multiplier** [JYM20]. **Adders** [Mik24, RRDB20]. **Adding** [OTTT22]. **Additive** [XGZ+24]. **Address** [HKS20, SZL+22]. **Addressable** [CWWW20, KSL+22]. **Addressing** [WLW+22a, ZZZ+20, ZGL+21]. **AdEle** [TKN23]. **Adjacency** [SXZJ24]. **Adjusted** [LL23]. **Adjustment** [APV22, JMW+24, LQY+20]. **ADLPT** [PLZ+23]. **Advance** [WL20]. **Advanced** [QZZ+24, VAV+20]. **Adversarial** [CCY+24, HHN+23, IKAG+22, JYH+24, LLX+24a, LGC+23, QZZ+24, RSR22, TZY+24, WHQ+24, XXJ+24, ZTY+23, ZML+24, ZCY+24, BGM+23]. **Adversary** [RBSG23]. **AEML** [TDZ+22]. **AES** [CLCL22, RMTA20, UMM+20]. **Affinity** [XZL+21]. **Affinity-Aware** [XZL+21]. **Against** [BCMT23, CCY+24, LHFW24, MXY+23, PPQBA21, SKK+21, SXH+24, TZY+24, XXJ+24, ZML+24, ZLH+21, ZCY+24]. **Age** [XWL+24]. **Age-Aware** [XWL+24]. **Agent** [ZDW+23]. **Aggregate** [HC24]. **Aggregation** [AB20]. **Aggregator** [XWL+24]. **Agile** [FQYS23]. **Aging** [ESN20, HMMP23, MSZ22, RCS+21]. **Aging-Aware** [RCS+21]. **Ahead** [HKS20, LPD+21]. **AI** [HHZ+23]. **Aided** [GLGL23]. **AILC** [LY21]. **AINNS** [ZCR23]. **Airborne** [MNB20]. **ALAMNI** [DSK23]. **Algebraic** [BPM23]. **Algorithm** [GYH+22, GQH21, GPQ22, GPQ23,

HWJ+21, LHXH22, LL23, LGW+22, LSXZ21, OLZ+20, PAR+22, SZ22, WYZ+22, WDW+23, ZCP23, ZLL+22a, ZWM20]. **Algorithm-Centric** [HWJ+21]. **Algorithm-Oriented** [ZLL+22a]. **Algorithmics** [DWYX20]. **Algorithms** [DVV23, EAMJ+23, God20, GJ20, JLL+20, Koç20, KB21, MÖS22, PN24, SGS+21, WGM+20, WLD+22, YLL+20, YLHL23]. **Alignment** [BAM+24, KXGS22, QHZ+21]. **All-Digital** [ZCF20]. **All-Inclusive** [ZCR23]. **Alleviate** [WDZ+22]. **Allocation** [GQZ21, HXGR20, LLL+20, OKC+20, SCC21, WTL+24, WWS+22, ZCF20]. **Allocator** [FCZ+23, HZT+23]. **ALPINE** [KBQ+23]. **Alterable** [CCYC22]. **Alternative** [CLCL22]. **Amazon** [TRV20]. **Ameliorate** [LFW21]. **Amnesiac** [SKK+21]. **Among** [JZH+24]. **Amplitudes** [ddAPdS21]. **AMR** [LLL+23]. **AMS** [FV23]. **Analog** [FLF20, KBQ+23, TOF+24]. **Analog/Mixed** [FLF20]. **Analysis** [AG22, BKS22, BFC20, CGS+20, CRJZ21, DA22, EGMW21, Fic22, GSB23, GSC+23, JGD+21, JCY+23, JCKH22, KLR+20, LJY21, LWH20, LSXZ21, MYGA20, MDR+24, RAD20, RSZ23, SLS+21, SCY21, SKK23, SGL+20, TTG+23, UYZP22, WLR20, WWJ+23, WNL+23, WFH+24, WZGT22, XAP20, YNJS21, ZABHCG23, ZYD+20]. **Analytical** [DGTVGG21, WPL+23]. **Analytics** [CXY24, HLS+23b, LWYJ23, MAM23, MCS+22, QWT+23, ZGB+21, ZCJ+20]. **Analyze** [TPWY23]. **Analyzing** [ZCB23]. **Ancilla** [BYM22]. **Ancilla-Free** [BYM22]. **Android** [RWCC23, XXJ+24]. **Annealing** [ATT22, HXL+23]. **ANNs** [LFW21]. **Anomaly** [HLF+23, TKM20, ZTY+23]. **Any** [YLHL23]. **ApGAN** [RSA+20]. **API** [RWCC23]. **Application** [CLY22, DGG+22, JWG+23, KCAL21, MRA+21, PAR+22, PE22, SKLR22, XZL+23, Xu24]. **Application-Level** [PE22]. **Application-Managed** [KCAL21]. **Applications** [CBB+21b, CQ22, CXW+23, CWC+24, DGTVGG21, DPQK+23, DRY+22, FWZ+21, FTR23, FWR+20, GKFF20, JWK+23, JYM20, KH23, LD22, LLL+23, LAPB21, MWJ+24, PNK+23, PB23b, SMFS21, SPDQ22, SSZ+20, TWZ+23, VKRK22, WS20, YNJS21, YHV+21, YWC+24, ZGB+21, ZLL+22b]. **Applying** [ZJW+24]. **Approach** [BKS22, BFG+21, CDRS20, CCG+22, FWM+23, GGZC22, HBB+21, JDCL23, JCZ+23, KDE+24, KB21, LYGC24, LYC+23, QZZ+24, TPWY23, VCLN21, WYSL22, WZCM23, WCL+23, WWC21, XSYL22, XLW+20, ZZZ+20, ZTY+23, ZNW+24, ZG23, ZDW+23]. **Approaches** [KKB+22, VHL20]. **Approximable** [AMM21]. **Approximate** [AVK20, AZS+23, BCV22, BSM21, CXW+23, FLS20, FTR23, MWJ+24, RSMMG+23, RRDB20, RSA+20, SMFS21, TOM23, USS+21, XWP+21, ZAS+22]. **Approximate-Communication-Enabled** [XWP+21]. **Approximated** [CQI+22]. **Approximation** [CZB+22, HZK24, KvL22, NKA24]. **Approximation-** [NKA24]. **Apps** [TQL+22]. **Arbitrarily** [ZCH+24]. **Arbitrary** [GPQ22, GPQ23, ZCWC23]. **Arbitrary-Deadline** [GPQ23]. **Arbitration** [CFC+22]. **Architecting** [JKHL22, KHHK21]. **Architectural** [CKK+22, GPH20, TPWY23]. **Architecture** [AAB+23, AHC+20, BRS+24, CSK22, DLY21, FHL+22, GWH+23, GWG+24, GR23, GL24, HMJ24, IKTY22, JKK+22, JLZ21, JPHY20, JLY+21, JDB+23, JDCL23, KJK+22, KLR23, KIY21, LLK+23, MKY+24, MSSL21, MHJ+21, MHS+20, MC23, MSZ22, RPS+21, RGS22, RCAB23, RBC+23, SQR+20, VAV+20, WLW+22a, WDQ+22, WLW+22b, WYZ+22, WWL+23, XLS+24, YFC+22, YGW+23, YLC+21, ZDZ+23, ZQY+20, ZLS+24, ZLZ24, ZFD+20,

ZLL+22a, ZHM20, ZTLW23, ZCSJ23]. **Architecture-Level** [JDCL23]. **Architecture-Mapping** [MHJ+21]. **Architecture-Neutral** [ZHM20]. **Architectures** [BBD+20, DMG23, LL21, LAPB21, MRA+21, MÁJG+24, PN24, QWK20, QHZ+21, RPB+23, TWZ+23, TZZ+21, UMM+20, USS+21, WS20, XQC+22, YLL+24, ZLL+23, ZWC+22, dSBS+22]. **Area** [RMTA20, USS+21, ZSHB21, ZQY+20, ZCWC23, ZCP23]. **Area-Efficient** [ZQY+20, ZCWC23]. **Area-Optimized** [USS+21]. **ARETE** [TTG+23]. **Argument** [QCX+23]. **ARINC** [DPCL22]. **Arithmetic** [BLM21, God20, LLFT23, MDPM24, VHL20]. **ARM** [SAJA21, ZYD+20, ZCB23, BPJ+22, DMX+22]. **ARM-Based** [ZYD+20]. **Arnold** [LTFL22]. **Array** [CHL+23, IKTY22, LWNC22, ZCWC23, ZLL+22a]. **Arrayed** [HS22]. **Arrays** [DPQK+23, JPHY20, KAA20, LRB23, WFT+21]. **Artifacts** [WFH+24]. **Artificial** [dSdCF22]. **Ary** [ZLC+23b]. **ASHL** [STZ+24]. **ASIC** [MÖS22]. **Assessment** [DGG+22, TTG+23]. **Asset** [SRB23]. **Assignment** [HZYY22, KKB+22, LW22, ZYL+22, ZCW+21]. **Assistance** [LR22]. **Assisted** [AY24, BJM+21, FZM+23, LYW+23, LWYJ23, NK22, NTR21, PSM22, ZFQ+23, ZXY+24, WDZ+23]. **Associated** [LLL+23]. **Associative** [FDKK21, SXH+24]. **Assurance** [YHC+20]. **Asymmetric** [IDFH22, LSCX20, LPC+21, VJWZ+21]. **Asynchronous** [FZG+22, LMW+24, WHL+21]. **Atomic** [GXY+23]. **Attack** [APH+23, BMBM20, CPM+23, LLX+24a, LGC+23, MXY+23, NT23, RKMR23, RBM21, TZY+24, XXJ+24, ZZZ+23, ZML+24, ZLW+24, ZXL+23, ZG23, JYH+24]. **Attacking** [RSMMG+23]. **Attacks** [BY22, CCC23, CCY+24, DMX+22, LCHL21, LG22, LHFW24, ODK20, OLZ+20, QZZ+24, SKK+21, SXH+24, TDH+23, WHC+23, WWJ+23, WHQ+24, ZLH+21]. **Attention** [LQC+22]. **Attribute** [GLGL23, KCS23]. **Attribute-Based** [GLGL23]. **Auditing** [TWaKo+23, ZSC+23]. **Augmented** [BLM21]. **Authenticated** [LZS+24, LHY+21, LHR+23, XXL+23]. **Authentication** [LYW+23, PB23a, WHQ+24, ZSS+22]. **Auto** [BMM+22, MLW+23, QHT+24]. **Auto-Tuner** [MLW+23]. **Auto-Tuning** [BMM+22, QHT+24]. **AutoDiagn** [DWN+22]. **Autoencoder** [SZS+22]. **Automata** [GWX+23, MFRR20, RMR22]. **Automated** [BRPM22, BCRX23, CPM+23, DWN+22, LW22, SCL+24, SSZ+20, WZG+23, WZJ+24, ZWC+22]. **Automatic** [BGB+21, FLF20, LD22, WLW+22a, YAG20, ZWSF24]. **Automatic-Addressing** [WLW+22a]. **Automatically** [CYKG23]. **Automation** [SMZ+20]. **Automotive** [MRA+21]. **Autonomous** [CZC+21, LCHK22, MSW+21]. **AUV** [ZML+24]. **Auxiliary** [OTTT22]. **Availability** [LZW+21]. **Avalon** [CYX+23]. **AVF** [TPWY23]. **Avoidance** [MKH+21, PC24, WLD+22]. **Aware** [AhRX+20, BY22, CWWW20, CSW+21, CZJ21, CSK22, CZW+24, FCZ+23, GQZ21, GKFF20, HHPB20, HYS+20, HGK+22, HF22, JKNK24, KLC20, KH23, KAWR23, LDZ+23, LCJ+24, LZZ+22, LSU+23, LLK+23, MTV+21, NKA24, PE22, PYYG21, PSBB21, RSP+20, RCS+21, RRDB20, RJ24, SNN21, SSK22, SLS+21, SLY+22b, SKM+23, TKN23, WGT+22, WRW+23, XLS+24, XZL+21, XWL+24, XYM23, YWX+23, YCS+24, ZAS+22, ZYXD20, ZLL+22b, ZDW+23, ZWC+22, YAG20]. **Awareness** [ZCZ+22]. **AWS** [TRV20]. **AXI** [JYF+23]. **AXI-IC** [JYF+23]. **AXI-Interconnect** [JYF+23]. **AxMAP** [RRDB20].

B [WBJC22]. **BA** [LQY+20]. **Backdoor**

[APH+23]. **Background** [WZW+23]. **Backward** [SZ22]. **BAFL** [FZG+22]. **Balance** [SZL+24]. **Balancing** [CBB21a, CFWC23, TARK23, TDZ+22, YLL+24]. **Bandits** [Gha21]. **Bandwidth** [BB22, HWZ+22, ZYL+22]. **Bandwidth-Efficient** [ZYL+22]. **Bank** [KKH22]. **Barrier** [LLS+23]. **Barriers** [PQG+22]. **Base** [JCKH22]. **Based** [AT23, AMJ+23, APH+23, ATT22, BLH+21, BSRP21, BCCM22, BTEC20, BMM+22, BBC+20, BBD+20, BL22, CCT+20, CB22, CJSY24, CDP21, CLY22, CMQ+22, CYX+23, CPL+23, CTZ+24, CXY24, CPB21, DVV23, DPCL22, DDK22, DSK23, DSP+21, DGG+22, DA22, DPS+20, DQ23, FZG+22, GGZC22, Gha21, GXZ+23, GLGL23, GXL+24, GL24, HKS20, HS22, HF23, HHZ+23, HHN+23, HBS20a, HP23, HWC+22b, HZM+23, HWG+23, xHzLH+24, HWJ+21, HGC+22, HLF+23, Ima21, IWKB22, JWK+23, JKK+22, JYM20, JLZ21, JPHY20, JLZ+23, JDCL23, JQK+24, JKHL22, JJKP22, KKS+22, KCS23, KPD+23, KH23, KAWR23, KJK24, KDE+24, KYS+22, KASAG23, LKK+21, LZW+21, LZF21, LCZ22, LWL+22, LWL+23, LLL+23, LDZ+23, LZS+24, LQN+21, LYC22, LMM+23, LFW21, LCH22, LLCJ23, LL23, LQY+20, LHR+23, LGC+23, LJY+24, LDF+24, LY20, LLY22, LYC+23, LZC+24, MSW+21, MSSL21, MIY+20, MC23, MÁJG+24, MDM22, NT23, NHW+24, OKC+20, OJ23, PYS20]. **Based** [PB23a, PYS+23, PNK+23, PKPR23, QCX+23, QWT+23, QZZ+24, RPMH21, RGS22, RSZ23, ROPdlT22, STW+21, SSW+24, SCL+24, SKK23, SEM23, SXH+24, SM24, SKM+23, TWZ+23, TZY+24, TGA23, TKM20, UMM+20, UYZP22, VBA20, VAV+20, WHC20, WLW+21, WCQW22, WHC+23, WWM+23, WZW+23, WXL+23, WMH+24, WHQ+24, WJL+20, WDZ+22, WSHJ23, XLWO23, XCZ+22, XPR+22, XXL+23, Xu24, XNL+23, YZX+24, YCS+24, YBG+22, YHV+21, YLHL23, ZGLZ20, ZTY+23, ZQY+20, ZGWY22, ZCD+22, ZSS+22, ZCWC23, ZGD23, ZLWJ23, ZNW+24, ZC24, ZWB+22, ZCY+24, ZHM20, ZCX+20, ZWSF24, ZLC+23a, ZDW+23, ZBT22, ZHYJ21, ddAPdS21, FBM21, HKC21, WHM+22, GQJ+22, ZYD+20]. **Bases** [ERKP21]. **Basic** [NP20]. **Basis** [VJWZ+21]. **Bayesian** [CWC+24, RSR22]. **BCube** [FXC+23, LLCJ23]. **BCube-Based** [LLCJ23]. **Behavior** [BFC20, ZTY+23]. **Behaviors** [ZZC+23]. **Benchmark** [HHZ+23, KLP+21, WFH+24]. **Benchmarking** [BFG+21, DMG23, HWZ+22, HXL+23, WZJ+24, XSYL22]. **Benefits** [WHL+23]. **BERT** [KSKK23]. **Better** [LHXH22, ZYXD20]. **Between** [YLL+20]. **Beyond** [BCKS22, CCG+22, RPS+21]. **BFT** [GXZ+24]. **BFT-DSN** [GXZ+24]. **Bias** [SKLR22]. **Biased** [MHM+23]. **Bidding** [WTL+24]. **Big** [BKHY22, DWN+22, HWL+21, LLT+23, ZGB+21, MDPM24]. **Big-PERCIVAL** [MDPM24]. **big.LITTLE** [LL21]. **BIKE** [RBMG22]. **Binarized** [FHW+22, YBG+22]. **Binary** [BCKS22, FB20, KJK24, KGHRM23, LCL+20, OLC+22]. **Binary-Compatible** [OLC+22]. **Biochips** [HGC+22]. **Birds** [PCA+23]. **Bisection** [JXH+22]. **Bit** [BSM21, BYM22, CCYC22, DVV23, FW23, Ima21, KKS+22, KSL+22, LCZ22, LGC+23, MDPM24, OTTT22, SZL+24, YNJS21, YBG+22, AJ22]. **Bit-Alterable** [CCYC22]. **Bit-Balance** [SZL+24]. **Bit-Cell** [FW23]. **Bit-Flip** [LGC+23]. **Bit-Level** [BSM21, KKS+22, SZL+24]. **Bit-Parallel** [LCZ22]. **Bit-Serial** [Ima21]. **Bit-Sliced** [DVV23]. **Bit-Width** [OTTT22]. **Bitcoin** [ZLC+23a]. **Black** [SSM23, XXJ+24, ZCY+24]. **Black-Box** [SSM23, ZCY+24]. **BLADE** [SQR+20]. **Blinded** [BMBM20]. **Block**

[BLKK23, CKK+22, Das23, DH20, HKC21, KvL22, LCH22, NP20, NKL+23, TGS+22, ZZG20, ZFH23, ZWSF24, WLY+23]. **Block-Based** [LCH22, HKC21]. **Block-Wise** [Das23]. **Blockchain** [BHW+23, FZG+22, GXZ+23, GLGL23, GZG+23, HZYY22, JQK+24, JHMM23, LLT+23, LZS+24, LHN+22, LGX+22, LHR+23, MLL+24, SSW+24, TDMP23, TWaKo+23, WPL+23, WLY+23, XLY+22, XZC+23, XNL+23, ZCD+22, ZSC+23, ZFQ+23, ZCH+24]. **Blockchain-Aided** [GLGL23]. **Blockchain-Based** [FZG+22, JQK+24, LZS+24, LHR+23, SSW+24, XNL+23]. **Blockchain-Cloud** [LHN+22]. **Blockchain-Empowered** [JHMM23]. **Blockchain-Enabled** [XZC+23]. **Blockchains** [LR22, XXL+23]. **BlockExplorer** [LLT+23]. **Blocking** [FL21, JCY+23, MIPQ22, YBW21]. **Blocks** [XSYL22]. **Bloom** [Alm23, BL22, LMM+23, VKRK22, WHY+22]. **BlueVisor** [JWD+22]. **BM** [XSYL22]. **BM-RCGL** [XSYL22]. **Boolean** [TWJ+22, ZCWC23]. **Boosting** [CZR22, SZK+22, WDZ+24]. **Boot** [SKK+21]. **Booth** [HZK24]. **Bootstrapping** [KDE+24]. **Borrowable** [LW22]. **Both** [WHL+23]. **Bound** [JSTG20, SGS+21]. **Bounded** [BSM21, LWC+22]. **Bounding** [RPB+23]. **Box** [CLCL22, SSM23, TGS+22, WCL+23, XXJ+24, ZCY+24]. **Boxes** [RMTA20]. **Brain** [GA22, TGA23, ZCX+23]. **Brain-Inspired** [GA22, TGA23]. **Branch** [BMBM20, CY22, MHA+20, ZXD+24]. **Branches** [SGS+21]. **Breaching** [MDM22]. **Breaking** [DLG+24, DGZ+22, WCYK20, ZXL+23]. **Bridged** [XST20]. **Bruijn** [MYGA20]. **BTI** [MSZ22]. **BTI-Induced** [MSZ22]. **Buddy** [MIPQ22]. **Budget** [WTL+24, ZCF20]. **Budgeting** [LLJ+23, RSP+20]. **Buffer** [LDLK22, LLY22]. **Buffered** [SCY21]. **Bufferless** [XST20]. **Bugs** [LB22]. **Building** [LWNC22]. **Built** [GXZ+23, MHS+20]. **Built-in** [MHS+20]. **Bundle** [LQY+20, WCB23]. **Burer** [SEM23]. **Burn** [AAB+23]. **Burn-In** [AAB+23]. **Burrows** [GR23]. **Burst** [DT20]. **Burstable** [HZR+23]. **Bus** [XTWG23]. **Butterfly** [LLS+22]. **Bypass** [PVB21]. **Bypassing** [LB22, MZZC22]. **Byte** [CWWW20, ZCX+23]. **Byte-Addressable** [CWWW20]. **Byzantine** [CERMH23, GXZ+24, TCX+23]. **Byzantine-Resilient** [TCX+23].

Cache [BY22, CCC23, DMX+22, FDKK21, Has23, HLLC21, KHP21, KHHK21, LHFW24, OKC+20, PYS20, PE22, RSP+20, SCFPM22, SQR+20, SXH+24, TSM+21, TRBM22, XKS21, ZZG20, ZWY+23, ZWSF24]. **Cache-Aware** [RSP+20]. **Cache-Clustering** [SCFPM22]. **Caches** [CFA22, DMX+22, HKC21, SXH+24, XAP20, XKS21]. **Caching** [BB22, DKJP21, KCS23, WDW+23]. **Calculating** [God20]. **Calculus** [GSB23]. **CAM** [LDG+22]. **CAMDNN** [HGK+22]. **Camouflaged** [ZCY+24]. **Candidate** [PCA+23]. **Canonical** [ZWM20]. **CAP** [ZWC+22]. **Capacitance** [BLH+21]. **Capacitance-Based** [BLH+21]. **Capacity** [AG24]. **Capsule** [ZFZ+21]. **CARM** [SYL+23]. **Case** [Alm23, FL21, HWG+23, KCAL21, WHQ+24, XPR+22, ZMS+23]. **Cases** [HXL+23, SCL+24]. **CASTLE** [LKMJ21]. **Cat** [LTFL22]. **Cauchy** [MCT22]. **Causal** [SKM+23]. **Causal-Aware** [SKM+23]. **Causality** [JMW+24, LJY+24]. **Cause** [TJG+23]. **Cause-Effect** [TJG+23]. **Caused** [GSY+20]. **CCSL** [HZM+23]. **CDS** [WHK24]. **Cell** [FW23, WFT+21]. **Cells** [AVK20, SLOM+23]. **Cellular** [MFRR20]. **CEnT** [IKTY22]. **Center** [FXC+23, LLCJ23, WCQW22]. **Centers**

[GSC+23, LDZ+23]. **Centric** [CNOS22, DGTVGG21, DGZ+22, HWJ+21, LD22, ODK20]. **Certification** [BSRP21]. **CFHider** [WZSL22]. **CFI** [PL21]. **Chain** [GQJ+22, GXY+23, LGX+22, SLY22a, ZCR22]. **Chains** [BPM23, TJG+23]. **Challenge** [SNRB23]. **Challenge-Response** [SNRB23]. **Change** [Gha21, KIY21, LLS+23, LKMJ21]. **Change-Detection-Based** [Gha21]. **Channel** [BKS22, BSM21, DYPZ22, GXY+23, HPGM20, HGC+22, JCKH22, KLKK23, KLR+20, LHFW24, OD23, RAD20, SSP+24, SXH+24, UYZP22, WL20, WHC+23, WWJ+23, WTL+24, XPR+22, ZYD+20, ZXL+23, ZLC+23a]. **Channel-Level** [KLKK23]. **Channels** [AJ22, FWM+23, GXY+23, SPMP20, WSG+23]. **Characterization** [AT23, EEA22, GA22, HDAS21, LPD+21, WRT+22, ZZC+23]. **Check** [RSMMG+23]. **Checking** [DDK22, GZC+21, LWNC22]. **Checkpointing** [AB22]. **Chip** [AT23, AKG+20, BPJ+22, FQYS23, GvSHA22, HPJK22, HYW+21, HBB+21, JKK+22, KKH22, KRB+22, LY21, MKH+21, SZAT22, TKN23, TSM+21, WNP+22, XNB21, XWP+21, ZLS+24, JPHY20]. **Chip-Level** [ZLS+24]. **Chiplets** [NAP+20]. **Chips** [FTR23, XST20]. **Cholesky** [YGW+23]. **Chosen** [XPR+22]. **CID** [KHHK21]. **CIMAT** [JPHY20]. **Cipher** [DLG+24, TGS+22]. **Ciphers** [BKS22, CKK+22, DH20, FBH+22, HPGM20]. **Ciphertexts** [XPR+22]. **Circ** [WBJC22]. **Circ-Tree** [WBJC22]. **Circuit** [GA22, JLY+21, PCA+23, ZDW+23, ddAPdS21, vSDHA23]. **Circuit-Based** [ddAPdS21]. **Circuits** [AMR+20, AZS+23, BYM22, CGLS21, CFWC23, CWC+24, FHW+22, LWH20, SXZJ24]. **Circular** [WBJC22]. **CISTs** [LLCJ23]. **Class** [DT20, MYGA20, WMH+24, ZTLW23]. **Classical** [KGHRM23, KB21, dSdCF22, ddAPdS21]. **Classification** [AOM+21, LQN+21, RWCC23, WHC+23, XLS+24, ZCX+23, ZWM20]. **Classifiers** [TZY+24]. **Client** [LR22, WLW+21, ZSX+24]. **Client-Assistance** [LR22]. **Clinical** [LQN+21]. **Cloaking** [WHC20]. **Closing** [CJSY24]. **Cloud** [CLZG22, CDF+21, DWYX20, FWZ+21, GWZ+21, GLGL23, HHZ+23, IWKB22, JWG+23, LWL+22, LDZ+23, LQN+21, LMM+23, LHN+22, LYW+23, MSLY24, SHZ+24, SKM+23, TCJ23, WLR20, WLW+21, WCB23, WDW+23, XLY+22, YTD+21, ZGB+21, ZNW+24, ZXW+24, ZZM+22, ZWSF24, ZZC+23]. **Cloud-Assisted** [LYW+23]. **Cloud-Based** [LQN+21]. **Cloud-Edge-Client** [WLW+21]. **Cloud/Edge** [HHZ+23, SKM+23]. **CloudChain** [XLY+22]. **Clouds** [XZL+21, ZDY+23]. **Cluster** [SLS+21, ZCC+23]. **Cluster-Aware** [SLS+21]. **Clustering** [JXH+22, SCFPM22]. **Clusters** [TARK23, WGL+20, ZYZ+23, ZFH23]. **CMOS** [SEM23]. **CMP** [ZWC+22]. **CMPs** [HMMP23]. **CMR** [LYC22]. **CMR-Based** [LYC22]. **CNN** [CNOS22, JWS+21, KKH22, LL23, SZS+22, TPWY23, WGL+20, WWM+23, WWX+24, ZCR22]. **CNNs** [BFG+21, BCMT23, DSP+21, GSY+20, LGW+22, WLW+22a, WLW+22b]. **Co** [AZS+23, GYH+22, GWZ+21, HBS20a, JLY+21, JLZ+23, KHHK21, PYS+23, TGA23, WZD+20, ZFZ+21, ZLL+22a, ZWM20]. **Co-Architecting** [KHHK21]. **Co-Design** [AZS+23, GYH+22, GWZ+21, HBS20a, JLZ+23, PYS+23, TGA23, WZD+20, ZFZ+21, ZLL+22a]. **Co-Designing** [ZWM20]. **Co-Exploration** [JLY+21]. **Coalescing** [SAG22]. **Coalition** [WCB23]. **Coarse** [DPQK+23, LB22]. **Coarse-Grained** [DPQK+23, LB22]. **Code**

[CFC+22, DDK22, Das23, FMM+21, HWG+23, LD22, NTR21, VBA20]. **Code-Based** [DDK22]. **Coded** [GSC+23, LRRK+22, SLS+21, ZFH23]. **Codes** [DT20, FDKK21, HBS+20b, KAA20, KGHRM23, TZ22, XLL+22, YLL+20, ZCX+23]. **Codesign** [SZL+24, TCJ23]. **Coding** [FLS20, IMQOP21, MCT22, PM20, WGT+22, YLHL23]. **COFAE** [NK22]. **Cognitive** [LLC+24]. **Cognizance** [JM21]. **Coherence** [Has23, KHP21, OD23]. **Coherent** [KRB+22]. **Cold** [SKK+21]. **Collaboration** [WLW+21]. **Collaborative** [ACKA23, AB20, JMW+24, JZY+23, PCMP21, SSW+24, SBP+20]. **Collaborator** [ZNW+24]. **Collection** [FZM+23, LGX+22]. **Collectives** [MYUK21]. **Collision** [OLZ+20]. **Collision-Optimized** [OLZ+20]. **COLM** [BMLOM20]. **Colocation** [CPL+23, ZCC+23]. **Colony** [XHY+22]. **Comb** [JCKH22]. **Combinational** [LLJ+23, SXZJ24, XSYL22]. **Combinatorial** [ZTT22]. **Combined** [HP23, RMTA20, WLW+22b]. **Combining** [CDF+21, Fic22, KKB+22]. **Commercial** [CCC23, XKS21]. **Commodity** [FNS+22, SCFPM22]. **Common** [IDFH22, ZMS+23]. **Communication** [ACKA23, BSM21, CZW+24, KRB+22, LHL+21, MZZC22, TJG+23, XWP+21, ZWC+22]. **Communication-Aware** [ZWC+22]. **Communications** [BSRP21, Lu21, PCBD23, XNB21]. **Compact** [DYJ20, GL24, HLQ+23, MSSL21, ZSS20]. **Compaction** [SAG22]. **Comparing** [TJG+23, VBA20]. **Comparison** [CFA22, DVV23, SO23, WZJ+24, ZBT22]. **Compatible** [OLC+22]. **Compensated** [GJ20]. **Compilation** [NM22, WGD+22]. **Compiler** [CDP21, NTR21, ZLL+22a]. **Compiler-Architecture** [ZLL+22a]. **Compiler-Assisted** [NTR21]. **Compilers** [MLW+23]. **Complete** [EAMJ+23, FHL+22]. **Completely** [WCQW22]. **Complex** [ZCH+24]. **Complexity** [BCCM22, CMQ+22, KNP+20, SSJ21]. **Components** [BJMKK23, RSA+20, WHC+23]. **Composable** [LZS+24]. **Composited** [MYGA20]. **Composition** [CGLS21]. **Compositional** [Has23]. **ComPreEND** [KPL+22]. **Comprehensive** [LLK+23, OLD+23, SDR+22, ZG23, ZSX+24]. **Compressed** [WNP+22]. **Compressing** [YCL+24]. **Compression** [GCL+21, HLL+20, JKNK24, KLKK23, LLL+23, LLWZ23, LLX+24b, NK22, UMM+20, WCL+23, ZJW+24, ZXW+24]. **Computation** [BLM20, CWNL22, Das23, DWYX20, FHH22, KPL+22, LHL+21, LRL22, LZW23a, LZC+24, RSZ23, WWX+24, XGZ+24, ZWB+22, ZWM20]. **Computational** [DSJ+22, KPD+23, SIR20, ZLWG22]. **Computations** [TDMP23]. **Compute** [EDGR+24, JPHY20, LY21, SZHB21, TARK23, WSM+24]. **Compute-In-Memory** [JPHY20, LY21]. **Compute-Programs** [WSM+24]. **Computer** [GPH20, MHS+20, SMZ+20]. **Computers** [EGMW21, EAMJ+23, WGD+22, ZFD+20, Ano20a, Ano23]. **Computing** [ACH21, ACG20, BBJR21, BTEC20, CCT+20, CGS+20, CVOJRH22, CQ22, CWC+24, CCG+22, DSP+21, DGZ+22, FTR23, GQZ21, GA22, GZG+23, HR22, HHZ+23, HLS+23b, HMK+21, IWKB22, JWG+23, JLY+21, JDB+23, JZY+23, KKRK22, KAWR23, LCHK22, LZS+24, LFW21, LYGC24, LWH20, LZC+24, LCC+24, MDPM24, MDM22, PCCK22, PLZ20, PPQBA21, RPS+21, ROPdlT22, SMFS21, SIR20, SNT22, SQR+20, SGS+21, TC21, TGA23, TCJ23, WHM+22, WYZ+22, WMH+24, XWL+24, YWC+24, ZGLZ20, ZLL+24, dHBF+21].

Computing-in-Memory [JLY+21]. **Computing-in-Memory-Based** [WMH+24]. **Concentration** [RSMMG+23]. **Concolic** [LM21]. **Concurrency** [DQ23, GSK+22]. **Concurrent** [JZH+24, LZZ+22, SKLR22, SPH+23]. **Condition** [MDM22]. **Conditional** [DPS22, SGS+21, ZLH+21]. **Confidentiality** [WZSL22]. **Configurability** [CQI+22]. **Configuration** [CXY24, LFP+22]. **Configurations** [WDCC20]. **Configuring** [BKHY22]. **Conflict** [SXH+24]. **Conflict-Based** [SXH+24]. **Conformance** [GZC+21]. **Congestion** [SLY22a, TKN23]. **Congestion-and-Energy-Aware** [TKN23]. **Conjugate** [YGW+23]. **Connected** [LLC+24, MYUK21, TKN23]. **Connected-Dominating-Set** [LLC+24]. **Conquer** [OLZ+20]. **Consensus** [CERMH23, HZYY22, JZY+23, XLY+22]. **Considering** [SCC21]. **Consistency** [WLW+22c]. **Consistent** [VKRK22]. **Consortium** [LHN+22]. **Constant** [JYM20, KAA22, KLL21, ZSS20]. **Constant-Time** [KAA22, KLL21, ZSS20]. **Constrained** [AZS+23, BTEC20, GPQ22, LZC+24, OAB+23, SWR+23, WTL+24, ZHLR22]. **Constraint** [ZGQ+22]. **Constraints** [KH23, ST23b]. **Constructing** [LLCJ23, LLC+24, LSW+23, WCQW22]. **Construction** [BCKS22, CLCL22, FXC+23, XLWO23, YYCR24]. **Constructions** [BKS22]. **Consumption** [OAC+21, TDH+23]. **Contact** [LHXH22]. **Container** [CB22, WDZ+24]. **Containerized** [HWL+21]. **Containers** [HZR+23]. **Containing** [BLM20]. **Content** [HGK+22, KSL+22, WDZ+22]. **Content-Addressable** [KSL+22]. **Content-Aware** [HGK+22]. **Contention** [CCZ+22]. **Contiguous** [HZT+23]. **Continual** [RSR22, XWL+24]. **Continuous** [CFWC23, ddAPdS21]. **Continuum** [MSLY24]. **Contour** [CSW+21]. **Contracts** [HJYL22, ZCH+24]. **Control** [CB22, CDF+21, DDK22, DPQK+23, DQ23, FWZ+21, GKFF20, HLS+23b, LHY+21, MKH+21, MRA+21, PL21, RMKO23, SLY22a, WHC20, WZSL22, XWP+21, ZLWG22, ZML+24, ZCF20]. **Control-Flow** [PL21]. **Control-Theoretic** [ZCF20]. **Controlled** [CAC+22]. **Controlling** [ZYXD20]. **CONV** [ZGWY22, ZCY+24]. **Conv-GANs** [ZCY+24]. **Converters** [SPMP20]. **Convolution** [DA22, JLL+20, LGW+22]. **Convolutional** [ACG20, AGQ+23, DA22, DLY21, DRA21, JKNK24, JCZ+23, JLL22, KNP+20, LCL+20, PPQBA21, RBC+23, WWC21, YFC+22, YWP+23]. **Cooling** [SZK+22]. **Cooperation** [ZDW+23]. **Cooperative** [ZZZ+20]. **Coordinated** [GSC+23, ZDZ+23]. **Coordination** [YCKW20]. **Coordinative** [LHL+21]. **COP** [LLJ+23]. **COPA** [BMLOM20]. **Cope** [BLP+22]. **Copy** [HS22]. **CORDIC** [MC23]. **CORDIC-Based** [MC23]. **Core** [AhRX+20, CKK+22, GLB21, GCR+23, Has23, JWD+22, JDCL23, JYM+23, KHP21, KKKC20, LZZ+22, LAPB21, MIPQ22, MB21, MBP21, MDJ20, PYS20, PCBD23, SNN21, SRP+21, SKLR22, WWS+22, WSG+23, YGW+23, YWP+23, ZZL21, ZYL+22, Lu21, WWJ+23]. **Cores** [HLT+23, LHK+22, LZW+23b, PFHD21, RSP+20, RPMH21, SZHB21, ZCF20]. **Correct** [YYCR24]. **Correct-by-Construction** [YYCR24]. **Correcting** [DT20]. **Correction** [FDKK21, FMM+21, KGHRM23]. **Corrections** [WZG+23]. **Correctly** [God20]. **Corrector** [HYW+21]. **Correlation** [CWNL22]. **Corruptions** [PG23]. **Cortex** [LLS+22, SAJA21]. **Cortex-M4** [SAJA21]. **Cosine** [JLL22]. **Cost**

[AAB+23, BGB+21, DLG+24, DWYX20, FLS20, JKHL22, PYW+22, SZK+22, SMZ+20, SLY22a, WDW+23, ZCR22]. **Cost-Driven** [DWYX20, WDW+23]. **Cost-Effectiveness** [SLY22a]. **Cotransformation** [APK20]. **Count** [RMO21]. **COUNTDOWN** [CBB+21b]. **Counter** [BHK+23]. **Countermeasure** [NT23, ZYD+20]. **Countermeasures** [ZXL+23]. **Counters** [GWCS23, LG22, SSM23]. **Counting** [WYZ+22]. **Coupled** [WHK24, YGW+23]. **Coverage** [WZCM23]. **Covering** [TOF+24]. **Covert** [WHC+23, WWJ+23, ZLC+23a]. **CP** [CLZG22]. **CP-ABE** [CLZG22]. **CPA** [TDH+23]. **CPU** [CKK+22, HDAS21, HZR+23, KMH+23, LPW20, LL21, WCYK20, ZCC+23]. **CPUs** [JDCL23, KASAG23, ZYL+22]. **Crane** [GSY+20]. **Credit** [EGMW21]. **CRIME** [PCMP21]. **Critical** [CSvdBU22, HLL+20, JLZ+23, SXZJ24, XSYL22, ZTY+23]. **Criticality** [JDB+23, LL22, MNB20, MBP21, VSG+23]. **Cross** [GXY+23, VAV+20, WFT+21, WLY+23, WTL+24, ZCH+24]. **Cross-Architecture** [VAV+20]. **Cross-Chain** [GXY+23]. **Cross-Channel** [GXY+23, WTL+24]. **Cross-Layer** [WLY+23]. **Cross-Point** [WFT+21]. **Cross-Shard** [ZCH+24]. **Crossbar** [BTEC20, WWM+23]. **Crossbar-Constrained** [BTEC20]. **Crossbar-Level** [WWM+23]. **Crossing** [PAR+22]. **Crosstalk** [IDFH22]. **Crowdsensing** [FHL+23, FZM+23, ZFQ+23]. **CRT** [LCZ22]. **CRT-Based** [LCZ22]. **Cryptographic** [HWG+23, PNK+23, TDH+23]. **Cryptography** [DVV23, HP23, KAA22, KGHRM23, MDJ20, TWZ+23]. **Cryptoprocessor** [AMJ+23]. **Cryptosystems** [BRPM22, GMZ22, RSZ23, XPR+22, ZBT22]. **CryptSQLite** [WSS+20]. **CRYSTALS** [DMG23, GL24, NKeSK+23]. **CRYSTALS-Kyber** [DMG23, GL24, NKeSK+23]. **Cube** [DPS22]. **Cubes** [ZLC+23b]. **CUDA** [SYL+23]. **CUDA-Accelerated** [SYL+23]. **CurIAs** [PB23a]. **Curiosity** [HZM+23]. **Curiosity-Driven** [HZM+23]. **Current** [PB23a]. **Current-Based** [PB23a]. **Curve** [MDJ20]. **Custom** [CWS+24, SEM23, WGM+20, WWX+24, YYCR24]. **Customizable** [WCZ+24]. **Customization** [BCRX23, FQYS23]. **Cuts** [Akr22]. **Cyber** [FV23, JLZ+23, LYF+22, PKPR23, TOF+24]. **Cyber-Physical** [FV23, LYF+22]. **Cycle** [FW23]. **Cyclebite** [WSM+24]. **Cyclic** [Das23].

D [BCV22, LSCX20, FMM+21, FZM+23, LW22, LQY+20, NAP+20, PC24, SM22, WLQ+21, WZD+20]. **D-Flip-Flop** [LW22]. **D-Point** [LQY+20]. **D-Reducibility** [BCV22]. **DAG** [GQH21, GPQ22, GPQ23, GXZ+23, HECC+21, JSTG20, LSU+23, SGL+20, STQ+24, UGvdBC23, WZGT22]. **DAG-Based** [GXZ+23]. **DAG-Fluid** [GQH21]. **DAGs** [GQH21]. **Dandelion** [CZR22]. **Dark** [LLJ+23, WLQ+21, WLW+22c, WWS+22]. **Data** [AB20, BJM+21, BHE21, BKHY22, CCYC22, CLY22, CXY24, CSK22, CKJ+22, CPB21, DWN+22, DWL+22, DQ23, FLS20, FXC+23, FHL+22, FZM+23, GSK+22, GSC+23, GZG+23, HKC21, HHPB20, HLQ+23, HC24, HMK+21, HWL+21, HJYL22, JM21, JDCL23, JZH+24, JJKP22, KMVD22, KXGS22, LHL+21, LLT+23, LDZ+23, LZS+24, LWH+24, LWC+22, LMM+23, LCH22, LLCJ23, LHY+21, LHN+22, LGX+22, LYW+23, LV23, LJY+24, MHDMEA22, MCT22, NTR21, PG23, PCCK22, PB23b, ROPdlT22, SSY+21, SWR+23, SKM+23, TWL+22, WSS+20,

WHC20, WCQW22, WLZ+21, WDW+23, WHK24, XNB21, XLL+22, XWL+24, XNL+23, YWC+21, YYQ+24, ZGB+21, ZGQ+22, ZZZ+23, ZGG+23, ZJW+24, ZC24, ZCZW23, ZXZ+21, ddAPdS21].
Data-Driven [JDCL23]. **Data-Flow** [FHL+22]. **Data-Independent** [ZGG+23].
Data-Parallel [GSK+22, LHL+21, ROPdlT22].
Data-Reuse [HLQ+23]. **Data-Type** [CSK22]. **Data-Types** [JM21]. **Database** [CKRP21, JWS+23, WPL+23].
Datacenters [SCY+23]. **Dataflow** [CHL+23, GWG+24, HBS20a, KXGS22, ZGWY22]. **Dataflow-Based** [HBS20a].
Datapath [HMJ24, UMM+20]. **Dataset** [CZR22]. **Datasets** [ZJW+24]. **DBMS** [AY24]. **DBMS-Assisted** [AY24].
DCFNoC [PFHD21]. **DDR** [BB20].
Deadline [GPQ23, YWX+23].
Deadline-Aware [YWX+23]. **Deadlines** [GPQ22]. **Deadlock** [MKH+21, PC24, WLD+22]. **Debugging** [AB22]. **Decentralized** [CWY+23, CZC+21, CCY+24, GXZ+23, GXZ+24, LYGC24, LHR+23, WLY+23, WJLC24, XZC+23, ZWB+22]. **Decision** [HKC+23, LQN+21, NHW+24]. **Decoder** [HZK24]. **Decoders** [VBA20]. **Decoding** [DT20, LSCX20, TZ22]. **Decomposition** [GYH+22, HKC+23, JWK+23, JLZ+23, KKB+22, WDQ+22].
Decomposition-Based [JLZ+23].
Decompression [KHHK21]. **Decoupled** [LCX21]. **Decoupling** [HKC21].
Decryption [CLZG22]. **DECT** [DLG+24].
DedupHR [WDZ+22]. **Deduplication** [CPB21, DZC+24, LHR+22, LJY+24, SHZ+24, WDZ+22, WDZ+23, YLG+23, YLL+24, YTD+21, ZSC+23].
Deduplication-Based [WDZ+22]. **Deep** [AC22, CXL+23, CSK22, DGG+22, DRA21, DGZ+22, GWCS23, GYS+24, HLL+20, HHPB20, HCC+23, HGK+22, HLC+22, JM21, KKS+22, KPL+22, KH23, KBQ+23, KYS+22, KBR+23, LPC+21, LFX+21, LY20, LLY22, LZC+24, LFP+22, LCC+24, MSP+21, PCCK22, PN24, SPB+21, STZ+24, SM24, STQ+24, SKM+23, TZY+24, WHM+22, WZX+22, WTL+24, WWC21, XLW+20, YWX+23, ZGLZ20, ZCK20, ZNW+24, ZCC+23, ZWSF24, ZHYJ21, ZWC+22].
Deep-Learning-as-a-Service [LCC+24].
DeepFire2 [AGQ+23]. **Deeply** [WGL+20].
Deeply-Pipelined [WGL+20]. **DeepP** [LFP+22]. **DeepWare** [GWCS23]. **Defects** [WRT+22]. **Defender** [LHFW24]. **Defense** [LCC+24, MXY+23, SKK+21]. **Defined** [KNP+20, YLC+21]. **Deflection** [XST20].
Degenerate [BJMKK23]. **Degree** [LPC+21]. **Delay** [LW22, SKR+20, SMY22].
Delayed [TARK23]. **Deletable** [WHY+22].
Deletion [LCH22]. **Delivery** [MHK+22].
Delta [CPB21, ZJW+24]. **Delta-Encoding** [CPB21]. **Demand** [MHA+20]. **Demands** [GYS+24]. **Denial** [BY22, NT23].
Denial-of-Service [BY22, NT23].
Denoising [WHQ+24]. **Dependence** [ZLH+21]. **Dependencies** [XZL+23].
Dependency [ZC24]. **Dependent** [BSM21, PCMP21, WHM+22, YBG+22, ZMS+23].
Deploying [MHS+20]. **Deployment** [BGB+21, LCJ+24, ZFL+22, ZZM+22].
Depth [LZF21]. **Depth-Limited** [LZF21].
Derivation [TWJ+22]. **DESCO** [JLZ+23].
Design [AZS+23, BK23, DA22, DZC+24, FHW+22, GMZ22, GYH+22, GSC+23, GWZ+21, HBS20a, HGC+22, JLZ+23, LLFT23, LWH20, MHJ+21, MKÖ+22, PYS+23, PSBB21, QHZ+21, RPS+21, RSZ23, RMKO23, SRP+21, SMZ+20, SLS+21, TGA23, TOM23, VHL20, WBJC22, WHL+23, WNL+23, WZD+20, XNB21, YHC+20, YYCR24, YLC+21, ZAS+22, ZYD+20, ZFZ+21, ZCP22, ZXD+24, ZLL+22a]. **Designed** [ZLW+24]. **Designing** [KHP21, ZWM20]. **Designs** [BJMKK23, DSTD22, FWM+23, LW22,

RMTA20, SRB23, SDR+22]. **Detailed** [WFH+24]. **Detect** [GWCS23]. **Detecting** [BLH+21, FWM+23, LG22, SZS+22]. **Detection** [Akr22, BJM+21, BBC+22, DMD+23, EEA22, FDKK21, Gha21, HHN+23, HLF+23, KPL+22, LRB23, LHXH22, MSP+21, OLZ+20, PSM22, PK23, SNA+20, SCY+23, SKA+22, VAV+20, WHC+23, WMH+24, XCZ+22, YWP+23, ZGB+21, ZTY+23]. **Detection/Correction** [FDKK21]. **Detector** [HYW+21, TKM20]. **Detectors** [Fic22, IKAG+22, ZCY+24]. **Deterministic** [CTZ+24]. **Deviation** [BSM21]. **Device** [BCRX23, JKK+22, JLY+21, TKM20, ZHL+24]. **Device-Circuit-Architecture** [JLY+21]. **Devices** [CWS+24, DYPZ22, GZC+21, KLC20, LPD+21, PPQBA21, RBMG22, SQR+20, SWR+23, TKM20, YZJ23, YWC+21, YH20, ZLC+22, ZLS+24]. **DHTS** [LZW23a]. **Diagnose** [CDRS20]. **Diagnosis** [DWN+22]. **Diagonal** [DLY21]. **Different** [GYS+24]. **Differentiable** [LLK+23]. **Differential** [AHK+21, FYR+24, RKMR23, RBM21, ZWB+22]. **Differentiated** [CZJ21]. **Digit** [ERKP21, HSE+24, LMDC21, LLFT23, LSW+23]. **Digit-First** [LLFT23]. **Digit-Serial** [ERKP21]. **Digital** [CMQ+22, KJK+22, LCC+24, ZXY+24, ZCF20]. **Dimension** [MHDMEA22]. **Dimensional** [SZS+22]. **Diminishing** [YHV+21]. **DIMM** [MIY+20]. **Direct** [CCZ+22, WLY+23]. **Directed** [HYS+20, MBP21, ZCX+20]. **Directly** [CKRP21]. **Disaggregated** [CL20]. **Disassembly** [KLR+20]. **Disclosed** [LBC24]. **DISCO** [Has23]. **Discovery** [SSY+21]. **Discrete** [GPH20, JLL22, KLL21, LPW20, LTFL22, ZSS20]. **Discriminator** [RSR22]. **Disjoint** [FXC+23]. **Disk** [CKRP21, HLS+23a, LPC+21]. **Disks** [HKS20]. **Disparity** [YCS+24]. **Disruptions** [HXGR20]. **Dissemination** [LHY+21, LYW+23]. **Distillation** [YPD+24]. **Distributed** [ACKA23, Akr22, CZJ21, CYX+23, DNMS20, DWL+22, DRA21, GGZC22, GKT+22, HHZ+23, HGC+22, HZMC24, LCJ+24, LLX+24a, LV23, STZ+24, SSW+24, TDZ+22, WZH+23, WJLC24, XQC+22, XLL+22, YCY+24, ZLL+23]. **Distribution** [CZW+24, JMW+24, LDZ+23, LQY+20, ZCZW23]. **Disturbance** [BGM+23, CFA22, IKTY22, LLS+23]. **Diverse** [XLS+24]. **Divide** [OLZ+20]. **Divide-and-Conquer** [OLZ+20]. **Dividers** [AVK20]. **Division** [Bru20, Bru23, HSE+24, LSW+23]. **DL** [ZYL+22]. **DLaaS** [CCY+24, xHzLH+24, LLX+24a, XXJ+24, ZML+24]. **DLPU** [DGZ+22]. **DLPU-Centric** [DGZ+22]. **DMA** [BRS+24, PCBD23]. **DMACN** [KCS23]. **DML** [DRY+22]. **DMRlib** [IMQOP21]. **DNN** [CWT+22, CZR22, GCL+21, LGC+23, LTJS+22, LWYJ23, MHJ+21, NKL+23, SPH+23, SKK23, XQC+22, YLC+21, ZDZ+23, ZAS+22]. **DNNs** [BGB+21, GXL+24, HLQ+23, JKHL22, WZG+23]. **DO** [ZHYJ21]. **Document** [JWS+23]. **Domain** [AKG+20, MKY+24, MHK+22, OLD+23, WS20]. **Domain-Specific** [AKG+20, WS20]. **Domain-Wall** [OLD+23]. **Domains** [ZHL+24]. **Dominating** [LLC+24]. **DORY** [BGB+21]. **Double** [God20, ZFH23]. **Double-Precision** [God20]. **Down** [WCYK20]. **DownShift** [KOH+23]. **DPA** [HP23]. **DQN** [ZLL+22b]. **DRAM** [AG24, BB22, HKC21, KCL+20, LYH+24, MTV+21, OAK+23, SKK+21]. **DRAM-Like** [AG24]. **DRF** [SCC21]. **Driven** [CXY24, DWYX20, GPH20, GZC+21, HZM+23, JDCL23, JXH+22, LWYJ23, WDW+23, YTD+21, ZLWG22]. **Drives** [BMM+22, HS22, LPC+21, YCKW20, ZYXD20]. **Driving** [CZC+21]. **DRL** [GQJ+22]. **DRL-Based** [GQJ+22]. **DS3** [AKG+20]. **DSN** [GXZ+24]. **DSP**

[KvL22]. **Dual** [ERKP21, HLS+23b, LLY22, PCA+23, WRW+23, ZSHB21]. **Dual-Issue** [ZSHB21]. **Dual-Mode** [LLY22, PCA+23]. **Dual-Privacy** [WRW+23]. **Duo** [CCYC22]. **Duo-Phase** [CCYC22]. **Durable** [PB23b]. **DVFS** [YL20, YHV+21]. **DVFS-Based** [YHV+21]. **DVREI** [LMM+22]. **DWC** [dSBS+22]. **Dynamic** [BBD+20, CBB21a, CWY+23, DRY+22, GPRV23, HJYL22, HXGR20, KCS23, LMM+22, LQC+22, LZW23a, LYC+23, MB21, MHA+20, MLW+23, ODK20, PYW+22, RSP+20, SCL+24, TTG+23, WLW+21, YLT+23, ZQG+24, ZZL21, ZLZ+23]. **Dynamic-Timing** [TTG+23]. **Dynamically** [CFWC23, CAC+22, HLQ+23]. **Dynamics** [WYB+24]. **DyNNamic** [HLQ+23].

E2CNNs [PPQBA21]. **EaD** [WDZ+23]. **Early** [BPJ+22, CR24, KPL+22]. **Easy** [IMQOP21]. **Easy-Coding** [IMQOP21]. **ECC** [FDKK21, LSXZ21, PD21, WDZ+23]. **ECC-Assisted** [WDZ+23]. **ECC-United** [FDKK21]. **ECDR** [HYW+21]. **ECDSA** [JCKH22]. **Economy** [YLT+23]. **Economy-Oriented** [YLT+23]. **EDA** [SSP+24]. **EDF** [CBB21a, CKP+22, JSTG20]. **Edge** [ACG20, BBJR21, CWY+23, CCY+24, DWYX20, HHZ+23, HGK+22, HLS+23b, HZYY22, JWG+23, JHMM23, JZY+23, LD22, LZS+24, LFW21, LYGC24, LZC+24, LWYJ23, MSLY24, NHW+24, PPQBA21, QWT+23, RPS+21, RBC+23, ROPdlT22, SQR+20, STQ+24, SKM+23, TCX+23, TKM20, WLW+21, WHM+22, WWX+24, XZL+21, XWL+24, YYQ+24, YWC+24, YCY+24, ZQG+24, ZGLZ20, ZFL+22, ZXY+24, ZHL+24, ZNW+24, ZHYJ21, ZSX+24]. **Edge-Assisted** [LWYJ23]. **Edge-Based** [QWT+23]. **Edge-Centric** [LD22]. **Edge-Cloud** [DWYX20, JWG+23, MSLY24, ZNW+24]. **Edge-Computing** [PPQBA21]. **Edge-Enabled** [YYQ+24]. **Edge-Intelligent** [WLW+21]. **Edge-Side** [HLS+23b, YWC+24]. **Edges** [ZLC+23b]. **Editorial** [Ano23, BBJR21, CDP21, CQ22, FAKM22, Kar24, Lu21, WS20]. **Editors** [QWK20, AW20]. **Effect** [LLS+22, TJG+23]. **Effective** [AAB+23, EEA22, JDCL23, KJC+21, SPDQ22, WFT+21]. **Effectiveness** [SLY22a]. **Effects** [BPJ+22, DQ23, MSZ22]. **Efficiency** [BSRP21, BB20, FDKK21, FHH22, KIY21, LPD+21, SZK+22, SKLR22, WXL+23, WDZ+24, YWX+23, YL20, ZCJ+20]. **Efficiency-Oriented** [YWX+23]. **Efficient** [AA20, AhRX+20, AHC+20, ACH21, ACG20, BYZZ20, BHW+23, BB22, BRS+24, BYM22, CZB+22, CLZG22, CFC+22, CXL+23, CKJ+22, CZW+24, DMD+23, DSP+21, DLY21, DSJ+22, FHL+23, FTR23, FZM+23, GMZ22, GWG+24, GLB21, GYH+22, GWX+23, HKC+23, HPJK22, HBS20a, HMJ24, IKTY22, IMQOP21, IKAG+22, JYM20, JLL+20, JYM+23, JHMM23, JZY+23, KJC+21, KSKK23, KAA22, KLC20, KJK24, LCZ22, LHR+22, LLFT23, LWL+21, LRB23, LCH22, LAKS20, LHL+23, LWH20, LSXZ21, MYGA20, MSSL21, MYUK21, MHA+20, MFRR20, MHK+22, MKYP21, NS22, NKeSK+23, NHW+24, PC24, PL21, PYS+23, QZZ+24, RGS22, SKR+20, SNN21, SRP+21, SAG22, SBP+20, SCY+23, TWL+22, TWaKo+23, WFW+20, WDCC20, WHC20, WLW+22a, WDQ+22, WLW+22b, WYSL22, WWM+23, WZCM23, WJLC24, WWL+23, XXL+23, XYM23, YLG+23, YLC+21, YYQ+24, ZSHB21, ZZG+23, ZQY+20, ZFZ+21, ZYL+22, ZCWC23, ZSC+23, ZLWJ23, ZJW+24, ZCH+24, ZWSF24, dSBS+22]. **Efficiently** [AHK+21]. **Efflux** [SZ22]. **EGCN** [HPJK22]. **EiC** [Kar24]. **Eidetic** [ESW+23]. **Eigenmode** [IDFH22]. **EIHDP** [WLW+21]. **Elaborate** [WHL+23]. **Elastic**

[CB22, WHY+22]. **ElasticDNN** [ZHL+24]. **Electrical** [AAB+23]. **Electromagnetic** [BGM+23, DYPZ22, HDAS21, SNA+20, UYZP22]. **Electronic** [SNRB23]. **Elementary** [CWS+24, MFRR20]. **Elevator** [TKN23]. **Eliminate** [DZC+24, IKTY22]. **Eliminating** [DSK23, LHK+22, SZK+22]. **Elimination** [HLLC21, IDFH22, WWM+23]. **Elliptic** [MDJ20]. **ELmD** [BMLOM20]. **ELOFS** [ZLC+22]. **Emanations** [HDAS21]. **Embedded** [BHE21, BJMKK23, DPCL22, DPQK+23, DYPZ22, FW23, Has23, HF22, HWG+23, JWD+22, JYM+23, KHHK21, LKK+21, LCL+20, MHK+22, SMP22, SKA+22, TRBM22, ZLC+22]. **Embedding** [KOT+23, ZLC+23b]. **Emerging** [BMM+22, CCZ+22, WS20]. **Empirical** [RWCC23]. **Employing** [JCKH22]. **Empowered** [JHMM23, MSP+21, WPL+23]. **Empowering** [XXL+23]. **Emulating** [BLM21]. **Emulation** [EAMJ+23]. **En-Route** [HMK+21]. **En/Decoding** [TZ22]. **Enable** [WZD+20]. **Enabled** [GSB23, LV23, LJY+24, MXY+23, XWP+21, XZC+23, YYQ+24, YCL+24]. **Enabling** [CCT+20, CCYC22, CHL+23, FQYS23, GWX+23, JLL+20, LDG+22, LHR+22, LCH22, LTJS+22, MÁJG+24, NM22, WFW+20, WWM+23, WGD+22, ZZG+23, ZFZ+21]. **Encapsulation** [HBS+20b, SAJA21]. **Enclaves** [GWZ+21]. **Enclavisor** [GWZ+21]. **Encoding** [CPB21, NK22, YLL+20]. **Encrypted** [LMM+22, LHR+22, LMM+23, LTJS+22, ZXW+24]. **Encryption** [CCT+20, CDF+21, GLGL23, KDE+24, LAKS20, PYS+23, SYL+23, TRV20]. **End** [BGB+21, CAC+22, GGZC22, LCHK22, WZX+22, WSHJ23, ZCR22, ZLS+24]. **End-to-End** [BGB+21, CAC+22, GGZC22, LCHK22, WZX+22, WSHJ23, ZCR22]. **Endogenous** [GQJ+22]. **Endpoint** [CWS+24]. **Endurance** [FCZ+23, YH20]. **Energy** [AhRX+20, AHC+20, ACH21, BB20, BB22, BRS+24, CBB+21b, DMD+23, DLY21, DSJ+22, DH20, DSTD22, FZM+23, GQZ21, GYH+22, HMJ24, HF22, JYM+23, KSKK23, KLC20, KH23, KJK24, KIY21, LWL+21, LHL+23, MSSL21, MHA+20, MFRR20, MHK+22, NHW+24, QHZ+21, RSA+20, SMFS21, SNN21, SAG22, SKLR22, STK23, SBP+20, TKN23, WFW+20, WLW+22a, WLW+22b, XST20, ZSHB21, ZZL21, ZLWJ23, ZXD+24, ZCF20]. **Energy-Aware** [GQZ21, HF22, KH23]. **Energy-Efficiency** [BB20]. **Energy-Efficient** [AhRX+20, AHC+20, ACH21, BB22, BRS+24, DMD+23, DLY21, DSJ+22, FZM+23, GYH+22, HMJ24, JYM+23, KSKK23, KJK24, LWL+21, MFRR20, MHK+22, NHW+24, SAG22, SBP+20, WFW+20, WLW+22a, WLW+22b]. **Energy-Resilient** [STK23]. **Enforcement** [FHL+22]. **Enforcing** [PFHD21]. **Engine** [BRS+24, DSK23, SPH+23, TDZ+22, YZJ23, GWX+23, YFC+22]. **Engineering** [HWG+23, ST23a, XTWG23]. **Engines** [DA22, JJKP22, PCBD23]. **EnGN** [LWL+21]. **Enhance** [WHK24]. **Enhanced** [AOM+21, CWY+23, JCKH22, KIY21, SMY22, WLZ+23, YZX+24]. **Enhancement** [BCRX23, LJY21]. **Enhancing** [GWG+24, HWL+21, VCLN21]. **Enlarging** [MHJ+21]. **Ensemble** [VAV+20]. **Ensembles** [PPQBA21]. **Entangling** [RJ24]. **Environment** [DWYX20, LGX+22, SKM+23, TDZ+22, WCZ+24, XHY+22, YHC+20, ZFL+22]. **Environments** [GQZ21, HZYY22, IWKB22, PLZ20, STZ+24, TDMP23, TCJ23, ZQG+24]. **EPRICE** [FHL+23]. **Equality** [ST23b]. **Equations** [AHK+21]. **Equivalent** [WZG+23]. **Erasure** [GSC+23, KAA20, SLS+21, XLL+22, ZFH23]. **Erasure-Coded** [GSC+23, SLS+21, ZFH23].

Error [BPJ+22, BCMT23, BFC20, CXW+23, DT20, DSJ+22, FDKK21, FTR23, FMM+21, HYW+21, JYM20, KGHRM23, LWC+22, LRB23, LRL22, MWJ+24, MTV+21, RMO21, TTG+23, YHC+20]. **Error-Bounded** [LWC+22]. **Error-Correction** [KGHRM23]. **Error-Resilient** [YHC+20]. **Error-Tolerant** [CXW+23, FTR23, LRL22]. **Errors** [BLP+22, BCMT23, KB21, LSCX20, PAR+22, PPQBA21, QHT+24, WNL+23, YBG+22]. **Escrow** [GLGL23]. **Escrow-Free** [GLGL23]. **Estimating** [KJC+21]. **Estimation** [AVK20, BBC+22, SMZ+20, YCS+24]. **Estimations** [BPJ+22]. **Evaluation** [BFG+21, DMX+22, GKT+22, HHZ+23, MLL+24, MÖS22, RWCC23, SSP+24, ZTLW23]. **Evaluations** [LFX+21]. **Evasion** [IKAG+22]. **Even** [BLM21]. **Event** [GPH20, KMVD22]. **Event-Driven** [GPH20]. **Evolutionary** [RSZ23]. **Evolving** [ZHL+24]. **Exact** [BBL22, CXW+23, ZWM20]. **Example** [ZCY+24]. **Exceptional** [BFC20]. **Exchange** [AMJ+23, PD21]. **Executing** [TQL+22]. **Execution** [BLKK23, DSP+21, FWM+23, FBM21, GCR+23, HJYL22, KJC+21, LPW20, LGX+22, NM22, PS22, SKR+20, SCL+24, WCZ+24, XHY+22, YBW21, ZSHB21, ZCH+24]. **Executions** [WLD+22]. **Exhaustive** [FWM+23]. **Existing** [TC21]. **Exit** [CR24]. **Expandable** [WHY+22]. **Experience** [BCRX23, ZLWG22]. **Experience-Driven** [ZLWG22]. **Experiment** [CXY24]. **Experiment-Driven** [CXY24]. **Explainable** [PSM22]. **Explicit** [BFC20, TZZ+21]. **Exploiting** [BCV22, CCC23, KKS+22, KLKK23, LSCX20, PB23a, ROPdlT22, SIR20, SCY21, SZL+24, WWM+23, WLY+23, WWS+22, WDZ+22, XNB21, XTWG23, ZLH+21, ZMS+23, ZCCG23, ZG23]. **Exploration** [CPM+23, HZM+23, JLY+21, LLFT23, LSXZ21, MHJ+21, QHZ+21, YLC+21]. **Exploring** [DKJP21, KYS+22, LLT+23, LYC+23, MDPM24, NKeSK+23]. **Exponential** [God20]. **Exponentially** [ZLC+23b]. **Exponentially-Many** [ZLC+23b]. **Exposed** [HMJ24]. **Extended** [KJK+22]. **Extending** [LGX+22, ZZL21]. **Extensibility** [XHY+22]. **Extensible** [ZLC+22]. **Extension** [ABP22, BHK+23, KGHRM23, SZHB21]. **Extensive** [MKÖ+22]. **External** [MKYP21, SNA+20]. **Extracting** [WSM+24]. **Extraction** [ATT22]. **Extrapolation** [WCL+23]. **Extreme** [JKHL22, YL20]. **Extreme-Scale** [JKHL22].

FaaSBatch [WDZ+24]. **FACCT** [ZSS20]. **Factored** [Das23]. **Factors** [TPWY23, TDH+23]. **FadingBF** [VKRK22]. **Failure** [HLS+23a, LDZ+23, PZY+23, TZ22, XLL+22, YZX+24]. **Failures** [LLCJ23]. **Fair** [GXY+23, LHR+23, SCFPM22, WZJ+24, XNL+23]. **Fairness** [BLH+21, LHN+22, SNN21]. **Fairness-Aware** [SNN21]. **Falcon** [ZGL+21]. **False** [RGS22]. **Families** [EEA22]. **Family** [WCQW22]. **Farewell** [Kar24]. **FAS** [ZLL+22b]. **FAS-DQN** [ZLL+22b]. **Fast** [AJ22, ACG20, BLKK23, BHE21, BAM+24, BCMT23, CCT+20, CVOJRH22, CXY24, CZW+24, DYJ20, DVA22, GPH20, GWX+23, HF23, JLL+20, JYH+24, MZZC22, PLB22, PSBB21, PN24, SCY21, TWZ+23, TZZ+21, TZ22, WHL+21, XLL+22, YZJ23, YLL+20, ZCJ+20, ZWM20, ZSS20]. **Faster** [LLWZ23]. **Fault** [BBC+20, BBC+22, FXC+23, GXZ+24, HP23, JLZ+23, JZY+23, LWL+23, MCT22, MDR+24, OLD+23, RKMR23, RBSG23, RBM21, SKK23, TOF+24, ZXL+23]. **Fault-Free** [SKK23]. **Fault-Tolerant** [FXC+23, GXZ+24, JZY+23, MCT22].

Faults [CDRS20, FMM+21, RBSG23, YNJS21]. **Faulty** [ZLC+23b]. **FAWA** [JYH+24]. **FBF** [BL22]. **Feather** [PCA+23]. **Features** [JLL22, KMVD22, MWJ+24, WHC+23]. **Featuring** [GCR+23]. **Federated** [CWY+23, CZW+24, FZG+22, GPQ23, GZG+23, JHMM23, LSU+23, MHM+23, TCX+23, WRW+23, WHL+21, XWL+24, YZX+24, YPD+24, ZLWG22, ZGQ+22, ZGG+23, ZXY+24, ZSX+24]. **FedGKD** [YPD+24]. **FedRFQ** [YZX+24]. **Feedback** [CB22, LWYJ23, TARK23]. **Feedback-Driven** [LWYJ23]. **Feedforward** [GSB23]. **FeFET** [GvSHA22, KSL+22, YBG+22]. **FeFET-Based** [YBG+22]. **Fenglin** [FQYS23]. **Fenglin-I** [FQYS23]. **Ferroelectric** [LLY22]. **Ferroelectric-Based** [LLY22]. **Fetch** [MAM23]. **Fidelity** [RMR22]. **Field** [CLCL22, YCS+24, KGHRM23]. **FIFA** [MSZ22]. **FIFO** [GSB23]. **File** [CSW+21, GGZC22, HWL+21, LCH22, ZLC+22]. **FileDAG** [GXZ+23]. **Filter** [BL22, LMM+23, VKRK22, WHY+22]. **Filter-Based** [LMM+23]. **Filtered** [LZF21]. **Filtering** [ACKA23, BAM+24, BBC+22, LCHL21, SAG22, TWZ+23, ZCJ+20]. **Filters** [Alm23, RSMMG+23, VHL20]. **Finance** [WHQ+24]. **Finding** [AMM21]. **Fine** [CHL+23, DDK22, DZC+24, FCZ+23, JWS+21, MLL+24, PL21, XNL+23, ZZG20, ZCCG23, ZXZ+21]. **Fine-Grained** [CHL+23, DDK22, DZC+24, FCZ+23, JWS+21, MLL+24, PL21, XNL+23, ZZG20, ZCCG23, ZXZ+21]. **FinFET** [SKA+22]. **Fingerprint** [ZWY+23]. **Fingerprints** [WHY+22]. **Firm** [GPRV23]. **First** [LLFT23, MHS+20, SMP22]. **Fits** [WGD+22]. **Fixed** [BBL22, JCY+23, JCKH22, VHL20, ZABHCG23]. **Fixed-Base** [JCKH22]. **Fixed-Point** [VHL20]. **Fixed-Priority** [ZABHCG23]. **Flash** [BMM+22, CCYC22, JKHL22, KKS+22, KCAL21, KOT+23, LSCX20, PLZ+23, PZY+23, WZW+23, WHL+23, WDZ+22, WDZ+23, WHK24, YWC+21, YH20, ZLC+22, KKS+22]. **Flash-Based** [BMM+22, JKHL22, KKS+22, WZW+23]. **Flash-Memory** [YH20]. **FLEX** [LL22]. **FlexBlock** [NKL+23]. **Flexible** [BLKK23, JQK+24, KAA22, LL22, LCX21, MKÖ+22, NKL+23, WJLC24, ZCK20, ZLZ24]. **FlexiPair** [BRPM22]. **FLiMS** [PLB22]. **Flip** [LW22, LGC+23, ST23a, RBM21]. **FLIXR** [KOT+23]. **Floating** [BLM21, Bru20, Bru23, CQI+22, GNH20, Mik24, NKL+23, TOM23, ZSHB21]. **Floating-Point** [BLM21, Bru20, Bru23, CQI+22, GNH20, Mik24, TOM23, ZSHB21]. **Flock** [PCA+23, ZWC+23]. **Flop** [LW22]. **FLOPs** [NHW+24]. **Flow** [AB22, DDK22, FHL+22, GSB23, HBS20a, xHzLH+24, HWJ+21, HGC+22, MSLY24, PL21, SSP+24, SPH+23, WZSL22, YCKW20, ZYZ+23]. **Flow-Based** [HGC+22]. **Fluid** [GPQ22, GQH21]. **Flux** [FHW+22]. **Fly** [BJMKK23]. **Fog** [GQZ21]. **Folding** [RBMG22]. **Footprint** [MIY+20]. **Footprint-Based** [MIY+20]. **Forensics** [ZHM20]. **FORESEE** [KJC+21]. **Forest** [SWR+23]. **Form** [ZTT22, ZWM20]. **Formalization** [ZCR23]. **Format** [SLY+22b]. **Formats** [GNH20]. **Forward** [RMTA20]. **Four** [YLL+20]. **Fourier** [LRRK+22]. **FPDeep** [WGL+20]. **FPGA** [CDP21, CTZ+24, CPM+23, DMG23, DNMS20, ESN20, EAMK22, GMZ22, HWJ+21, LDF+24, LGW+22, MYUK21, MSZ22, PYS+23, RPB+23, SPB+21, SDR+22, SM24, TRV20, WGL+20, WDCC20, WGM+20, WCZ+24, WWL+23, WYB+24, ZMS+23, ZBT22, dHBF+21]. **FPGA-Accelerated** [WYB+24]. **FPGA-Based** [CDP21, LDF+24]. **FPGA-SoC** [WCZ+24]. **FPGAs** [AB22, AGQ+23, BK23, DRY+22, HBS+20b,

HWZ+22, LRB23, ROPdlT22, SIR20, ZDZ+23]. **Fractal** [ZFD+20]. **Framework** [AKG+20, BRPM22, BKHY22, CPL+23, CPM+23, DWN+22, FZG+22, Gha21, GKFF20, HLS+23a, HCC+23, JMW+24, KJC+21, KKRK22, KSKK23, KKKC20, KAA20, LL21, LCX21, MLL+24, MKYP21, PAR+22, PLZ20, QHT+24, RCS+21, RMKO23, SNA+20, SSW+24, SKK23, WZX+22, WJLC24, XXJ+24, YCS+24, YTD+21, YWC+24, YCL+24, ZML+24, ZHM20, ZHYJ21, dHBF+21]. **Free** [BYM22, GR23, GLGL23, KJK24, LHY+21, SKK23]. **Frequency** [APV22]. **Frequent** [NK22]. **Freshness** [ZLL+22b]. **Freshness-Aware** [ZLL+22b]. **Friendly** [WLC+24]. **Frontend** [XTWG23]. **FSM** [FHH22]. **Full** [CGLS21, SZAT22, SZHB21, WSG+23, ZLW+24]. **Full-Chip** [SZAT22]. **Full-Round** [ZLW+24]. **Fully** [LYC+23, MYUK21, MSZ22, WLW+22a, YWC+24]. **Function** [BYM22, FHH22, God20, GSS+23, GQJ+22, LBC24, MSLY24, SLY22a, SSM23, XZL+23, ZZG+23, ZFL+22, ZCWC23, ZWC+23]. **Function-as-a-Service** [ZWC+23]. **Functional** [BL22, KBR+23]. **Functionalities** [PCA+23]. **Functions** [AMM21, AA20, BYZZ20, BCCM22, CWS+24, LCHL21, VJWZ+21]. **Fusion** [BLKK23, xHzLH+24]. **Future** [LHK+22].

Galois [KGHRM23]. **Game** [BLH+21, NHW+24, ZGLZ20]. **Game-Based** [NHW+24]. **Gamepad** [BLH+21]. **Games** [LL21]. **Gaming** [LWL+22]. **GAN** [KBR+23, MSSL21, RSA+20]. **GANDAFL** [KXGS22]. **GANs** [ZCY+24]. **Gap** [CJSY24]. **GAS** [ZLL+24]. **Gate** [UMM+20]. **GateKeeper** [BAM+24]. **GateKeeper-GPU** [BAM+24]. **Gates** [XSYL22]. **Gateway** [PD21]. **Gating** [HBB+21]. **Gaussian** [ERKP21, KAA22, KLL21, SZS+22, ZSS20]. **GCN** [HPJK22]. **GCNs** [SYW+22]. **GCONV** [ZCR22]. **Gem5** [QHT+24]. **Gem5Tune** [QHT+24]. **GEMM** [GXL+24]. **General** [CNOS22, FHH22, HLS+23a, KDE+24, MZZC22, Xu24, ZLL+24]. **General-Purpose** [ZLL+24]. **Generalized** [LTFL22, MLL+24, MKY+24, MBP21, ZWWY22]. **Generated** [DGTVGG21]. **Generating** [LGC+23, XLS+24]. **Generation** [BJMKK23, CDRS20, DVA22, FLF20, STQ+24, YGW+23, ZLWJ23, ZLS+24, ZG23, ZCY+24]. **Generations** [BMM+22]. **Generative** [RSR22, XLW+20]. **Generator** [CMQ+22, CTZ+24, FHH22, HF23, SCL+24]. **GenoDedup** [CPB21]. **Genome** [CPB21, QHZ+21]. **GF** [GMZ22]. **GFBE** [MLL+24]. **Global** [BBL22, CKP+22, JSTG20, JCY+23, MHM+23, SXZJ24, XAP20, YPD+24]. **Globally** [BK23]. **GNN** [WSHJ23, ZLL+23]. **GNU** [SPDQ22]. **Good** [JJKP22]. **Google** [SZK+22]. **Governing** [LL21]. **GP** [JDCL23]. **GPGPU** [SAG22, YNJS21]. **GPU** [BAM+24, BBD+20, CKRP21, CKJ+22, FBM21, HCC+23, HLT+23, JWS+21, KKRK22, LKK+21, LPW20, LL21, LXW+23, LZW+23b, SPH+23, TDZ+22, WXL+23, YLT+23, YCL+24, ZZG+23, vSDHA23]. **GPU-Based** [WXL+23, FBM21]. **GPU-Enabled** [YCL+24]. **GPU-Powered** [KKRK22]. **GPU-SPICE** [vSDHA23]. **GPUs** [JLL+20, LZW23a, WSHJ23, XZL+21, YWX+23, YBW21, ZCZ+22, ZCCG23]. **Gradient** [CCT+20, WGT+22, YGW+23]. **Grain** [DPS22]. **Grain-128a** [DPS22]. **Grained** [CHL+23, DDK22, DZC+24, DPQK+23, FCZ+23, JWS+21, LB22, MLL+24, PL21, XNL+23, ZZG20, ZCCG23, ZXZ+21]. **Graph** [APH+23, DSP+21, FNS+22, FWR+20,

GWG+24, JCZ+23, JJKP22, KPD+23, KLR23, LZC+21, LTFL22, LWL+21, LZZ+22, MAM23, MB21, MCS+22, NKA24, SCY21, WCQW22, WXL+23, WWC21, XYM23]. **Graph-Based** [KPD+23]. **Graphfire** [MAM23]. **Graphs** [LYC+23, MBP21, RDS23, SSK22, WSM+24, ZLL+23]. **Gray** [WCL+23]. **Gray-Box** [WCL+23]. **Great** [WCYK20]. **GreedW** [WJLC24]. **Grid** [ZWB+22]. **GRIP** [KLR23]. **Groups** [ZTLW23]. **Grow** [DYJ20]. **Growing** [YCKW20]. **Growing-Scale** [YCKW20]. **Guarantee** [ZDY+23]. **Guaranteeing** [LCHK22]. **Guarantees** [VKRK22, ZQG+24]. **Guardauto** [CZC+21]. **GuardBands** [MTV+21]. **Guest** [Ano23, BBJR21, CDP21, CQ22, FAKM22, Lu21, QWK20, WS20, AW20]. **Guided** [TTG+23, YL20].

Hamiltonian [ZLC+23b]. **Handheld** [WZD+20]. **Handling** [HMMP23, ST23b]. **HAOTuner** [MLW+23]. **Hard** [JYM+23, LPC+21, LW22, PS22, SM22]. **Hardening** [dSBS+22]. **Hardware** [APH+23, Ano23, AHK+21, AW20, BMLOM20, CGLS21, CQ22, DMG23, DMD+23, DLY21, FAFK21, FB20, FAKM22, FHW+22, FWR+20, GR23, GYH+22, GWZ+21, GL24, HF23, HHN+23, HWG+23, HXL+23, IKAG+22, JWD+22, KAA22, KMH+23, LG22, LQY+20, LRRK+22, LLK+23, MDJ20, MC23, MFRR20, MLW+23, ODK20, OAC+21, PAR+22, PSM22, PYS+23, PK23, RBMG22, RBSG23, ROPdlT22, SNRB23, SZL+22, SSM23, SZL+24, UMM+20, WFH+24, WZD+20, XLS+24, XCZ+22, ZFZ+21, ZHM20, ZTLW23, ZZZ+20]. **Hardware-Assisted** [PSM22]. **Hardware-Aware** [LLK+23, XLS+24]. **Hardware-Based** [ROPdlT22, ZHM20]. **Hardware-Software** [GWZ+21]. **Hardware-Trojan** [HHN+23]. **Hardware/Software** [XCZ+22]. **Harmonization** [YWC+21]. **Harness** [IDFH22]. **Harnessing** [AHC+20, HDAS21]. **Harsh** [YHC+20]. **Harvesting** [ZXD+24]. **Hash** [FAFK21, NT23, QCX+23, RGS22]. **Hash-Based** [NT23, QCX+23, RGS22]. **HASP** [LMW+24]. **HDD** [DGG+22, LYC22]. **Health** [DGG+22, KCS23, LPC+21]. **Healthcare** [LYW+23]. **HEAWS** [TRV20]. **HePREM** [FBM21]. **Heterogeneity** [WGT+22]. **Heterogeneity-Aware** [WGT+22]. **Heterogeneous** [BFG+21, CSK22, FBM21, GQZ21, GSK+22, HHPB20, HECC+21, HZMC24, HXGR20, JWG+23, KKKC20, KH23, KIY21, LSU+23, LAPB21, OAB+23, PYW+22, RDS23, SNN21, SRP+21, SSK22, SKLR22, STZ+24, SBP+20, TDZ+22, WLR20, XCZ+22, YWX+23, YPD+24, ZLL+23, ZLWJ23, ZGG+23, ZZM+22, ZCX+20, ZGL+21, ZCZW23, ZFH23, ZWY+23, ZDY+23]. **Heuristic** [SEM23]. **HiBid** [WTL+24]. **Hidden** [BYM22, DMD+23]. **Hierarchical** [CL20, GYH+22, HLT+23, HLF+23, LMW+24, RCS+21, WLW+21, WTL+24]. **Hierarchy** [LHK+22]. **High** [BHK+23, BB22, BRS+24, CGS+20, CFC+22, DMG23, DGTVGG21, DA22, DSTD22, EAMJ+23, EAMK22, FHH22, FHL+22, FTR23, GQZ21, HHPB20, HLQ+23, HWZ+22, HLT+23, JDB+23, JWS+23, KLL21, KRB+22, LDLK22, LWL+21, LSW+23, LZW+23b, LYH+24, LGW+22, MHDMEA22, MCS+22, NKeSK+23, PSBB21, RMR22, SNT22, TWZ+23, TRBM22, UMM+20, VCLN21, WSS+20, WWM+23, WZCM23, WDZ+23, XCZ+22, YLG+23, ZCP22, ZLWJ23, dHBF+21]. **High-Accuracy** [SNT22]. **High-Coverage** [WZCM23]. **High-Efficiency** [FHH22]. **High-Efficient** [WWM+23]. **High-Level** [CFC+22, DSTD22, MCS+22, PSBB21, VCLN21]. **High-Performance** [BRS+24, EAMJ+23, EAMK22, FTR23,

HHPB20, JWS+23, KLL21, KRB+22, LZW+23b, NKeSK+23, TRBM22]. **High-Radix** [LDLK22, ZCP22]. **High-Resilience** [JDB+23]. **High-Resolution** [MHDMEA22]. **High-Speed** [BHK+23, DMG23, TWZ+23]. **High-Throughput** [LWL+21]. **Higher** [DVV23, RMR22]. **Higher-Order** [DVV23]. **Highly** [JYF+23, WDCC20, ZFZ+21]. **HIPEDAP** [DMD+23]. **Historical** [WFH+24]. **Hitchhiker** [ZLZ+23]. **HLS** [ZBT22]. **Hogweed** [MSP+21]. **Holistic** [HCC+23, WZW+23]. **HOME** [HCC+23]. **Homing** [TWJ+22]. **Homomorphic** [CDF+21, KDE+24, PYS+23, RSZ23, SYL+23, TRV20]. **Homomorphically** [LTJS+22]. **Homomorphism** [DSP+21]. **Honeycomb** [LDF+24]. **Hop** [Akr22]. **Host** [ZYXD20]. **Host-Aware** [ZYXD20]. **Hotness** [HHPB20]. **Hotness-** [HHPB20]. **Hotplug** [MIY+20]. **HPC** [HECC+21, SSZ+20]. **HPC-DAG** [HECC+21]. **HPDK** [LYH+24]. **HPKA** [NKeSK+23]. **HTDetector** [HHN+23]. **Huge** [HWC+22a]. **Human** [LHXH22, WZX+22]. **HW** [MÁJG+24, TGA23]. **HW-Based** [MÁJG+24]. **HW/SW** [TGA23]. **Hybrid** [ATT22, FB20, GWG+24, HZYY22, IWKB22, JXH+22, KB21, LDLK22, LLL+20, LZW23a, LYH+24, LY20, OKC+20, RPS+21, RMR22, STW+21, SKM+23, TSM+21, ZGD23, ZNW+24, CCG+22]. **Hybrid-SIMD** [CCG+22]. **Hydra** [YWX+23]. **Hyperdimensional** [KKRK22, SIR20, TGA23, WMH+24, YWC+24]. **Hypergraph** [LLX+24b]. **Hypervisor** [JWD+22].

I/O [BMM+22, HYS+20, HWL+21, KJC+21, LJY+24, LYH+24, PE22, WJL+20, ZYXD20, ZZC+23]. **I/Os** [WZW+23]. **IBM** [LFP+22]. **IC** [JYF+23, PB23a]. **Idempotence** [LKK+21]. **Idempotence-Based** [LKK+21]. **Identification** [HLL+20, KLR+20]. **Identifying** [SXZJ24]. **Idler** [ZYXD20]. **IEC** [SCL+24]. **IEEE** [BCCM23, CQ22, FAKM22, IIEKS24, Ano20a, Ano23, BBJR21, CDP21, Lu21, WS20]. **IID** [ZGQ+22]. **IIoT** [TDMP23]. **Illuminating** [ZCX+23]. **Image** [BBC+20, BBC+22, CKJ+22, DZC+24, FLS20, KLC20]. **Images** [LMM+22, ZCX+23]. **Imaging** [GWCS23, WZD+20, YCS+24]. **Impact** [BBC+22, ESN20, SZK+22]. **Impeccable** [AMR+20]. **Implementation** [BMLOM20, CLCL22, JYM20, LAKS20, RBMG22, SMY22, TWL+22, XLWO23, ZCWC23]. **Implementations** [DVV23, MYGA20, TGS+22]. **Implementing** [APK20]. **Implications** [KLP+21]. **Implicit** [BSRP21, BCKS22]. **Imprecise** [JYM20, JDB+23, RSA+20]. **Improve** [JLZ+23, PPQBA21, ZCJ+20]. **Improved** [ACH21, MDR+24, NP20, ZCZ+22]. **Improving** [BSRP21, BB20, HKC21, HLF+23, JWS+21, KBR+23, LWL+22, LLL+23, LR22, OAC+21, PLZ+23, PM20, WFT+21, WZGT22, WSHJ23, YH20, ZCC+23]. **IMR** [LYC22]. **IMR-Based** [LYC22]. **in-Cache** [SQR+20]. **In-Container** [WDZ+24]. **In-Line** [LJY+24]. **In-Memory** [BTEC20, CXY24, DSP+21, ESW+23, KSL+22, KAWR23, KBQ+23, KYS+22, LSXZ21, TGA23, WYZ+22, ZCWC23, CCT+20, WLW+22b]. **In-Memory-Computing** [ZLL+24]. **In-Module** [LLS+23]. **In-Place** [BCKS22]. **In-ReRAM** [KSKK23]. **In-Situ** [KJK24, LY20]. **Incentive** [FHL+23, HZYY22, WRW+23]. **Incentivizing** [WZH+23, ZWWY22]. **Inclusions** [GJ20]. **Inclusive** [ZCR23]. **Incomplete** [YGW+23]. **Incremental** [AB20, HXGR20, LY21, PYW+22].

Independent [WCQW22, ZGG+23]. **Index** [Ano20a, KOT+23]. **Indirect** [CCZ+22]. **Indistinguishability** [ZC24]. **Induced** [HDAS21, LWNC22, MSZ22, PAR+22]. **Industrial** [CDF+21, FHL+23]. **Industry** [BGM+23]. **Inexact** [AVK20]. **Inference** [BCRX23, BBD+20, CXL+23, CSK22, CWC+24, CZW+24, DSK23, DA22, JKHL22, LMDC21, LTJS+22, LWYJ23, MDM22, PCMP21, WDCC20, WZX+22, WGD+22, ZCK20, ZWC+22]. **Inference-Aware** [CSK22]. **Inference-Based** [BBD+20]. **Influence** [WFH+24]. **Information** [CCC23, xHzLH+24, LHR+23, PYW+22, XKS21, Xu24, YHC+20, ZXL+23, ZSX+24, ZGK20]. **Infrastructure** [SRB23]. **Inheritance** [FL21]. **Inner** [PN24]. **Inner-Product** [PN24]. **Inodes** [CSW+21]. **Input** [ESN20, PCMP21, RRDB20, SLY+22b, ZMS+23]. **Input-Aware** [SLY+22b]. **Input-Dependent** [PCMP21, ZMS+23]. **Inputs** [CR24]. **Insertion** [LCH22, MAM23]. **Insertion/Deletion** [LCH22]. **Insignificant** [WWM+23]. **Inspection** [TRBM22]. **Inspired** [GA22, HXL+23, TGA23, WZX+22]. **Instabilities** [CYKG23]. **Instance** [KMVD22, ZYL+22]. **Instances** [ATT22, SZS+22]. **Instruction** [AGB+23, CKK+22, HMJ24, KHHK21, KLR+20, MHK+22, OJ23, RJ24, UYZP22, WGM+20, WZCM23, WWX+24]. **Instruction-Level** [WZCM23]. **Instructions** [CWS+24, WLW+22c]. **Integer** [WFH+24]. **Integers** [DVA22, MÖS22, ZSS20]. **Integrated** [JYF+23, RCS+21, SM24]. **Integration** [KBQ+23, MRA+21, NAP+20, SPMP20]. **Integrity** [FHL+22, PL21, TWaKo+23, ZSC+23]. **Intel** [CDF+21, WZSL22, XTWG23]. **Intelligence** [NHW+24]. **Intelligent** [GWH+23, JMW+24, LYF+22, OAC+21, WLW+21]. **Intensive** [DPQK+23, PB23b, ZSHB21]. **Inter** [HS22, LHK+22, LPW20, MZZC22, MYUK21, PCBD23]. **Inter-Core** [PCBD23]. **Inter-FPGA** [MYUK21]. **Inter-Partition** [HS22]. **Inter-Process** [MZZC22]. **Inter-Processor** [LPW20]. **Inter-Warp** [LHK+22]. **Interaction** [DGZ+22]. **Interactive** [QCX+23, WDQ+22]. **Interconnect** [JYF+23]. **Interface** [BB20]. **Interference** [WDZ+22, WZGT22]. **Interlaced** [WLZ+21]. **Intermediate** [WRT+22]. **Internal** [YWC+21]. **Internet** [FHL+23, DRA21, GKT+22, HC24, LHR+23, QWT+23, SYL+23]. **Internet-of-Things** [DRA21, LHR+23]. **Interoperable** [TDMP23]. **Interpolation** [APK20]. **Interrupts** [DYPZ22]. **Interval** [GJ20]. **Intra** [IKTY22, ZCCG23]. **Intra-Array** [IKTY22]. **Intra-SM** [ZCCG23]. **Introduction** [AW20, Kar24, QWK20]. **Invariant** [BBD+20]. **Invariants** [KMH+23]. **Inverse** [CB22, RMTA20]. **Inversion** [GMZ22, Koç20]. **Invertible** [MSZ22]. **Investigating** [SSM23]. **Invisible** [TRBM22]. **IoT** [ABP22, BBJR21, BCBS21, BGB+21, CWS+24, GQJ+22, HZMC24, LD22, LAKS20, LYW+23, VAV+20, WLW+21, YYQ+24, ZSS+22, ZLS+24, ZLW+24, ZHM20]. **IP** [RGS22]. **Irreducible** [Ima21]. **Irregularities** [GSY+20]. **Irregularity** [ZZZ+20]. **ISA** [ABP22, KGHRM23, SZHB21]. **Ising** [OTTT22, ST23a, ST23b, SEM23]. **Islands** [CFWC23]. **Isogeny** [SAJA21]. **Isolation** [WHC20]. **Isomorphism** [LZF21]. **ISPA** [ZCCG23]. **Issue** [Ano23, AW20, BBJR21, BCCM23, CQ22, FAKM22, Lu21, QWK20, SZHB21, WS20, ZSHB21]. **Iterated** [JXH+22]. **Iterative** [Bru23, LMDC21, TOM23, ZCP23]. **Iteratively** [WYSL22]. **IVP** [GWH+23].

Jacobi [YGW+23]. **Java** [WLC+24].

JBNN [FHW+22]. **Jitter** [BPM23]. **Job** [CPL+23, IMQOP21]. **Jobs** [BLP+22, GYS+24, IWKB22, WZH+23, YWX+23, ZCC+23]. **Joint** [MSLY24, MHJ+21, WCYK20, ZYZ+23]. **JointPS** [ZYZ+23]. **Journal** [Lou20]. **Journaling** [CWWW20]. **JPEG** [DZC+24].

KaratSaber [WWL+23]. **Karatsuba** [WWL+23]. **Karnaugh** [VJWZ+21]. **Kernel** [GSS+23, LKK+21, LCHL21, dOCC23]. **Key** [AMJ+23, BL22, CJSY24, CLY22, EDGR+24, HBS+20b, LLWZ23, LYH+24, LDF+24, PD21, SAJA21, YZJ23, ZGD23, ZXW+24, ZLW+24]. **Key-Exchange** [AMJ+23]. **Key-Value** [CLY22, ZGD23]. **Keys** [DVA22]. **Keyword** [DWL+22, LMM+23]. **Kit** [TSM+21]. **KnightSim** [GPH20]. **Knob** [SMFS21]. **Knobs** [OAC+21]. **Knowledge** [BHW+23, JMW+24, QCX+23, YPD+24, ZGG+23]. **KPI** [SCY+23]. **Kreyvium** [RBM21]. **Kubernetes** [CB22, MXY+23]. **Kutta** [BFC20]. **KVSTL** [CLY22]. **Kyber** [DMG23, GL24, NKeSK+23, XPR+22].

L1 [RCAB23]. **L4L** [ZLWG22]. **Ladder** [NS22]. **LAMP** [LLL+23]. **Large** [KPD+23, LZC+21, LDG+22, LWH+24, LWL+21, LMM+23, LTJS+22, MÖS22, MÁJG+24, SYW+22, SCY+23, YCY+24, ZCJ+20, ZLL+23, ZCSJ23]. **Large-Scale** [KPD+23, LZC+21, LDG+22, LWH+24, SYW+22, SCY+23, YCY+24, ZCJ+20, ZCSJ23]. **Last** [HLLC21]. **Last-Level** [HLLC21]. **Latch** [YHC+20]. **Latching** [LW22]. **Latching-Delay** [LW22]. **Latencies** [LCHK22]. **Latency** [AG24, Bru20, MÖS22, NHW+24, PM20, PVB21, RCAB23, WZX+22, WHL+23, WDZ+23, ZQG+24, ZCP22, ZLL+22b, ZTLW23]. **Latency-Sensitive** [ZLL+22b]. **Lattice** [AMJ+23, DVV23, HP23, KAA22, PYS+23, TWZ+23, XPR+22, ZBT22]. **Lattice-Based** [AMJ+23, DVV23, HP23, PYS+23, TWZ+23, XPR+22, ZBT22]. **Lattices** [AA20]. **LAWS** [YAG20]. **Layer** [CLY22, KOT+23, WLY+23]. **Layered** [SHZ+24]. **Layers** [PAR+22]. **Layout** [HKC+23, HYS+20, JJKP22, TC21, XLL+22]. **Layout-Aware** [HYS+20]. **Layouts** [BCKS22]. **LDPC** [HBS+20b, LSCX20]. **Leakage** [CCC23, DH20, HLC+22, LHY+21, SSP+24, XPR+22]. **Leakage-Free** [LHY+21]. **Leaking** [CY22, XKS21]. **Leaks** [OD23]. **Learnable** [YWC+24]. **Learned** [BL22]. **Learning** [APV22, BJMKK23, BL22, CPL+23, CWY+23, CZW+24, CAC+22, DGG+22, DGZ+22, FZG+22, FAKM22, GWCS23, GGZC22, GKT+22, GYS+24, GZG+23, HLL+20, HHPB20, HCC+23, HF22, HZM+23, HLT+23, JKK+22, JHMM23, KH23, KAWR23, KBQ+23, KASAG23, KBR+23, LZW+21, LWL+22, LYGC24, LZW+23b, LY21, LZC+24, LFP+22, LCC+24, MSP+21, MHM+23, MWJ+24, PSM22, PZY+23, PYW+22, PK23, QWK20, RAD20, RWCC23, RSA+20, RSR22, SZAT22, SMZ+20, STZ+24, SSW+24, SZ22, SM24, SSZ+20, STQ+24, SKM+23, TZY+24, TCX+23, TTG+23, TKM20, VAV+20, WDCC20, WHM+22, WCB23, WLZ+23, WZH+23, WRW+23, WJLC24, WTL+24, WGD+22, WJL+20, WHL+21, XLW+20, XZC+23, XWL+24, YZX+24, YWX+23, YPD+24, YCY+24, ZGLZ20, ZLWG22, ZTY+23, ZGQ+22, ZGG+23, ZXY+24, ZNW+24, ZFD+20, ZYZ+23, ZLL+22b, ZWSF24, ZHYJ21, ZWC+22, ZSX+24]. **Learning-Based** [BL22, GGZC22, HZM+23, KASAG23, LZW+21, LWL+22, SM24, ZWSF24]. **Learning-Guided** [TTG+23]. **Ledger** [CYX+23]. **LedgerMaze** [BHW+23]. **Length** [FLS20]. **Less** [LLWZ23]. **LET**

[BPM23, PCBD23]. **Level** [AKG+20, BSM21, CFC+22, DGTVGG21, DSTD22, HLLC21, JDCL23, KKS+22, KLKK23, KASAG23, LL22, LLL+23, LLL+20, MCS+22, NAP+20, NM22, OLC+22, PE22, PSBB21, SCFPM22, SZL+24, VCLN21, WFW+20, WWM+23, WZCM23, XYM23, YH20, ZLS+24, ZWWY22]. **Leveling** [CSW+21, NK22]. **Leveraging** [GSK+22, PVB21, RCS+21, SZL+22, WFT+21, WGT+22, XZL+21]. **LFOC** [SCFPM22]. **LFSR** [BHK+23, Ima21]. **LFSR-Based** [Ima21]. **Libraries** [CGS+20]. **Library** [CBB+21b, TGS+22, ZTT22]. **Lieu** [Das23]. **Life** [ZCR22]. **Lifetime** [HHPB20, LLC+24, PLZ+23, RCS+21, YWC+21]. **Lifetime-Aware** [HHPB20]. **Lifetime-Retention** [YWC+21]. **Light** [YCS+24]. **LightWarner** [PZY+23]. **Lightweight** [BBC+22, CKJ+22, EEA22, HPGM20, HBS+20b, JHMM23, KLP+21, LYW+23, LV23, MYUK21, OLZ+20, PLB22, PD21, PLZ20, RBC+23, SZHB21, ZSS+22, ZLS+24, GWX+23]. **Like** [AG24, LYC22]. **Lime** [PYW+22]. **Limited** [LZF21, WZD+20, WYB+24]. **Limon** [YZJ23]. **Line** [LWL+23, LJY+24, WCQW22]. **Line-Graph-Based** [WCQW22]. **Linear** [HKC+23, ST23b]. **Linearly** [CQI+22]. **Links** [STW+21]. **Linux** [LCHL21, dOCC23]. **List** [Ano20b]. **Live** [AY24, TRBM22]. **LNS** [ZDV+22]. **LNS-Madam** [ZDV+22]. **Load** [CBB21a, TARK23, TDZ+22]. **Load-Balancing** [TDZ+22]. **Loading** [LZC+24]. **Local** [KLC20, RSR22, SXZJ24, TQL+22]. **Locality** [CWWW20, JJKP22, WDZ+22, YAG20]. **Locality-Aware** [CWWW20, YAG20]. **Localization** [LHL+23, PSM22, XSYL22]. **Location** [ZC24]. **Lock** [DQ23, TZZ+21]. **Lock-Based** [DQ23]. **Locking** [ZG23]. **Locks** [JGD+21, JCY+23]. **Log** [HLF+23]. **Log-Based** [HLF+23]. **Logarithmic** [ACH21, APK20, ZDV+22]. **Logging** [HKS20]. **Logic** [AA20, BCV22, CWNL22, LB22, VJWZ+21, XSYL22, ZG23]. **Logical** [ZGWY22]. **Long** [CMQ+22]. **Longest** [RGS22]. **Longevity** [CCYC22, RCS+21]. **Look** [Das23, SMP22, AB22]. **Look-Up** [Das23]. **LookAside** [DSK23]. **Loss** [GCL+21]. **Lossless** [DZC+24]. **Lossy** [WCL+23]. **Low** [ABP22, AAB+23, BCBS21, Bru20, BGB+21, CMQ+22, DDK22, FLS20, JKHL22, KNP+20, MÖS22, PYW+22, PVB21, RMTA20, RCAB23, RSA+20, WHL+21, WDZ+23, ZQY+20, ZLC+22, ZCP22, ZCP23, ZDV+22, ZTLW23]. **Low-Area** [RMTA20]. **Low-Complexity** [KNP+20]. **Low-Cost** [AAB+23, BGB+21, FLS20, JKHL22, PYW+22]. **Low-Latency** [MÖS22, PVB21, RCAB23, ZTLW23]. **Low-Overhead** [DDK22, ZLC+22]. **Low-Power** [BCBS21, ZQY+20]. **Low-Precision** [ZDV+22]. **Lower** [DLG+24]. **LPC** [FMM+21]. **LrGAN** [MSSL21]. **LRU** [XKS21]. **LSDedup** [SHZ+24]. **LSM** [CJSY24, CLY22]. **LSM-Tree** [CLY22]. **LSM-Tree-Based** [CJSY24]. **LSTM** [DGG+22, GYH+22, MC23]. **LSTMs** [DYJ20]. **LTI** [VHL20]. **LUT** [ESN20]. **LUTNet** [WDCC20]. **LUTs** [ESN20]. **LWE** [LAKS20, XLWO23].

M4 [SAJA21]. **MAB** [ZWWY22]. **MAC** [JYM20, SNT22]. **MAC-Based** [JYM20]. **Machine** [APV22, BJMKK23, CWC+24, CAC+22, DNMS20, FAKM22, GKT+22, HF22, JJKP22, KAWR23, KASAG23, LYF+22, PSM22, PK23, QWK20, RWCC23, SZAT22, SMZ+20, ST23a, SEM23, SZS+22, SSZ+20, TTG+23, WLZ+23, WZH+23, WJLC24, WGD+22, XNLX20, ZFD+20, ZYZ+23].

Machines [AB20, AY24, MIPQ22, SSJ21, ST23b, ZWC+23]. **Madam** [ZDV+22]. **MAGIC** [LYC22]. **Magnetic** [WLZ+21, ZYXD20]. **Magnifying** [XPR+22]. **Main** [NK22]. **Maintenance** [LYC+23]. **Making** [LYC22, RRDB20]. **MalFox** [ZCY+24]. **Malicious** [LHXH22]. **Malleability** [IMQOP21]. **Malware** [EEA22, Fic22, IKAG+22, PSM22, SNA+20, TZY+24, VAV+20, YWP+23, ZCX+23, ZCY+24]. **Malware-on-the-Brain** [ZCX+23]. **Man** [MXY+23]. **Man-in-The-Middle** [MXY+23]. **MANA** [AGB+23]. **Managed** [KCAL21]. **Management** [AhRX+20, BLKK23, BBC+20, CCYC22, CLY22, GGZC22, HMMP23, HCC+23, IMQOP21, KKH22, KKKC20, LCX21, LHR+22, LHN+22, PYYG21, RMKO23, SRB23, SMFS21, SPDQ22, TCJ23, WCYK20, WLZ+21, YH20, ZCC+23, ZCCG23]. **Mangrove** [BBD+20]. **Manipulation** [ZXZ+21]. **Many** [AhRX+20, JWD+22, JYM+23, Lu21, MB21, PFHD21, RSP+20, RPMH21, SRP+21, WWJ+23, WWS+22, YGW+23, ZYL+22, ZLC+23b]. **Many-Core** [AhRX+20, JWD+22, JYM+23, LAPB21, MB21, SRP+21, WWS+22, YGW+23, ZYL+22, Lu21, WWJ+23]. **Many-Cores** [PFHD21, RSP+20, RPMH21]. **Manycore** [LLJ+23, RCS+21, RCAB23]. **Map** [LTFL22, VJWZ+21]. **Mapping** [BTEC20, BAM+24, HGK+22, KH23, LZF21, LLL+23, LL23, LAPB21, MHJ+21, RSP+20, RCS+21, ZTT22, ZDZ+23, ZLZ24, ZDW+23]. **Mapping-Based** [LLL+23]. **MapReduce** [AB20]. **MarCNNet** [YWP+23]. **Market** [CYX+23]. **Marketing** [LHN+22]. **Markovian** [YWP+23]. **Masked** [DVV23]. **Massive** [HZMC24]. **Massively** [vSDHA23]. **Matching** [GWX+23, RGS22]. **Matrices** [JWK+23]. **Matricesin** [Das23]. **Matrix** [ESW+23, GLB21, KCL+20, KJK+22, LRB23, MCT22, SXZJ24, TGS+22, ZLL+24]. **Maximization** [YHV+21]. **Maximizing** [FDKK21, KLKK23, WJL+20]. **Maximum** [LLC+24, LWH20]. **Maximum/Minimum** [LWH20]. **MC** [LL22]. **MC-FLEX** [LL22]. **MCUs** [BGB+21]. **MDev** [PYDG22]. **MDev-NVMe** [PYDG22]. **MDTUpdate** [ZFH23]. **Mean** [JYM20]. **Mean-Error** [JYM20]. **Measurement** [KB21, LHW+21]. **Measurements** [BPJ+22, WLZ+23]. **Measures** [Xu24]. **MEC** [XZL+23]. **Mechanism** [CSW+21, KCS23, NHW+24, SKK+21, WRW+23, ZCJ+20, ZCD+22, ZSC+23, ZFQ+23, ZWB+22, ZWWY22]. **Mechanisms** [HMMP23]. **Mediated** [PYDG22]. **MegaKernels** [JLL+20]. **Membership** [RSMMG+23]. **Memcached** [CRJZ21]. **Memories** [FDKK21, FW23, FMM+21, KSL+22, KOH+23, NK22, OLD+23]. **Memory** [BLKK23, BHE21, BY22, BB20, BB22, BTEC20, CCT+20, CWT+22, CL20, CZB+22, CWWW20, CSW+21, CCYC22, CXY24, CFC+22, CJYC23, DSK23, DGTVGG21, DSP+21, DPS+20, ESW+23, EDGR+24, FCZ+23, GWG+24, GvSHA22, GR23, GWX+23, HZT+23, HKC+23, HHPB20, HPJK22, HCC+23, HWC+22a, HWZ+22, JPHY20, JLY+21, JWS+23, KKH22, KSL+22, KAWR23, KMH+23, KBQ+23, KYS+22, KIY21, LB22, LHK+22, LLS+23, LSCX20, LCX21, LDLK22, LLWZ23, LLL+20, LJY+24, LKMJ21, LY20, LY21, LLY22, LSXZ21, MHK+22, PLZ+23, PZY+23, PQG+22, PPQBA21, PB23b, QCX+23, RGS22, RPB+23, RCAB23, SAG22, SMZ+20, SMY22, SPH+23, SWR+23, TSM+21, TGA23, WLW+22a, WBJC22, WLW+22b, WYZ+22, WNL+23, WMH+24, WCYK20, WDZ+23, WHK24, XLY+22, YLG+23, YLL+24, YH20, ZHLR22, ZCWC23, ZLL+24, ZWY+23, ZCSJ23, ddAPdS21]. **Memory-Aware** [BY22]. **Memory-Centric** [DGTVGG21]. **Memory-Constrained**

[SWR+23, ZHLR22]. **Memory-Efficient** [GWX+23]. **Memory-Enhanced** [SMY22]. **Memory-Free** [GR23]. **Memory-Optimality** [CWT+22]. **MemPool** [RCAB23]. **Memristive** [SMY22, VJWZ+21]. **Memristor** [JWK+23, LFW21]. **Memristor-Based** [JWK+23, LFW21]. **MemUnison** [WLW+22b]. **Merged** [ZZG20]. **Merger** [PLB22]. **Merging** [WJL+20]. **Mesh** [PC24]. **Message** [TZZ+21]. **Messages** [ZLC+23a]. **Meta** [RSR22, VCLN21, WLY+23]. **Meta-Block** [WLY+23]. **Meta-Learning** [RSR22]. **Meta-Programming** [VCLN21]. **Metadata** [GGZC22, LHR+22, WNP+22]. **Metastability** [BLM20]. **Metastability-Containing** [BLM20]. **Method** [ATT22, JCKH22, LWNC22, LLJ+23, QCX+23, SKR+20, SXZJ24, ST23b, VJWZ+21, ZCWC23]. **Methodology** [DSTD22, GPH20, SDR+22]. **Methods** [AA20, BFC20, LMDC21, LWC+22, MKÖ+22, RWCC23]. **Metric** [ZSX+24]. **MGARD** [LWC+22]. **MGen** [KSKK23]. **Microarchitecting** [AGB+23]. **Microarchitectural** [PG23]. **Microarchitecture** [KASAG23, LDLK22, ODK20]. **Microarchitecture-Level** [KASAG23]. **Microarchitectures** [DSJ+22, YYCR24]. **Microfluidic** [HGC+22]. **Microprocessors** [BPJ+22, FAFK21, WLQ+21]. **Microservice** [ZQG+24]. **Middle** [MXY+23]. **Migration** [AY24, HHPB20, HWC+22a, LLL+20, OKC+20, RPMH21, WWS+22]. **Migrations** [YWC+21]. **Min** [RMO21]. **Minimal** [GCL+21, SSJ21, YZX+24]. **Minimization** [CCZ+22, JXH+22]. **Minimizing** [ACKA23, HPJK22, WJL+20, YWC+21, YBW21]. **Minimum** [Akr22, LWH20]. **Mining** [BBD+20, HLS+23a]. **MINOTAuR** [GCR+23]. **MIPSGPU** [YBW21]. **Mirroring** [CHL+23]. **Miss** [DKJP21]. **Misuses** [GSS+23]. **Mitigate** [QZZ+24]. **Mitigating** [FMM+21, GSS+23, GSY+20, KB21, LLS+23, WHQ+24]. **Mitigation** [SKK23]. **Mixed** [FLF20, JDB+23, LL22, LYC+23, MNB20, MBP21, VSG+23, XLL+22, YLG+23, dSBS+22]. **Mixed-Criticality** [JDB+23, LL22, MNB20, MBP21, VSG+23]. **Mixed-Precision** [dSBS+22]. **Mixture** [SZS+22]. **ML** [CXY24, GSB23]. **ML-Based** [CXY24]. **MLC** [HLLC21]. **MM** [FHH22]. **MM-FSM** [FHH22]. **MMDataLoader** [JZH+24]. **Mobile** [BLH+21, EEA22, FZM+23, KCL+20, KLC20, LL21, LZS+24, LPD+21, SBP+20, TQL+22, XZL+21, XWL+24, ZFQ+23, ZXY+24]. **Mobility** [SKM+23]. **Mobility-Based** [SKM+23]. **Mod** [Koç20]. **Modal** [SSY+21]. **Mode** [HMJ24, LL22, LLY22, NKL+23, OAK+23, PCA+23, SZL+22]. **Model** [ATT22, BHW+23, CB22, CRJZ21, DGTVGG21, DPS+20, FBM21, GCL+21, HLL+20, HECC+21, HLC+22, JZH+24, KYS+22, OTTT22, PKPR23, SDR+22, SZL+24, WLW+22c, WMH+24, Xu24, ZZZ+23, ZGG+23]. **Model-Based** [CB22, DPS+20]. **Model-Hardware** [SZL+24]. **Model-Heterogeneous** [ZGG+23]. **Modeled** [WLD+22]. **Modeling** [FV23, IIEKS24, JM21, KAA20, KASAG23, LZW+21, MTV+21, SSZ+20, WWJ+23, WCL+23, WRT+22]. **Modelling** [AT23]. **Models** [LDZ+23, LWH+24, LPC+21, LTJS+22, LM21, MHA+20, RBSG23, ROPdlT22, RSR22, TOF+24, TDH+23, YCY+24]. **Modern** [CY22, FAFK21]. **Modular** [AJ22, BRS+24, CCG+22, MKH+21, MÖS22, TWZ+23, ZCP22, ZCP23]. **Modularized** [WWC21]. **Module** [LLS+23, MDJ20]. **Modulo** [PNK+23]. **Moldable** [BLP+22]. **Molecular** [WYB+24]. **Monarch** [PB23b].

Monitoring [KCS23, PLZ20, YWP+23]. **Monitors** [MDM22]. **Monotonicity** [Mik24]. **Monteiro** [SEM23]. **Montgomery** [AJ22, NS22, ZCP22, ZCP23]. **Morphing** [WWC21]. **Most** [LLFT23]. **Most-Significant** [LLFT23]. **MPAM** [ZCB23]. **MPI** [CBB+21b]. **MPSoC** [KKB+22]. **MPSoCs** [HGK+22]. **MRAM** [CFA22, FTR23, HWC+22b, KJK+22, OAK+23, SMFS21, TSM+21]. **MRAMs** [WRT+22]. **MTHAEL** [VAV+20]. **MTTKRP** [SLY+22b]. **Muller** [YLHL23]. **Multi** [Akr22, BLKK23, BMM+22, BCBS21, CFC+22, DRY+22, FNS+22, FZM+23, GXZ+23, Has23, xHzLH+24, JDCL23, JWS+21, KKH22, KSKK23, KCS23, KHP21, KSL+22, KKKC20, LMW+24, LHY+21, LAPB21, LFP+22, MIPQ22, MBP21, Mik24, MCS+22, NKL+23, PYS20, RPB+23, SCC21, SNN21, SKLR22, SSY+21, STZ+24, ST23a, SYW+22, TDZ+22, WCB23, WZH+23, YNJS21, YWP+23, YTD+21, YH20, ZZM+22, ZFH23, ZDW+23, ZCF20, ZDZ+23, ZYL+22]. **Multi-Accelerator** [RPB+23]. **Multi-Agent** [ZDW+23]. **Multi-Applications** [DRY+22]. **Multi-Attribute** [KCS23]. **Multi-Bank** [KKH22]. **Multi-Bit** [KSL+22, YNJS21]. **Multi-Block** [ZFH23]. **Multi-Core** [Has23, JDCL23, KHP21, KKKC20, MIPQ22, MBP21, PYS20, SNN21, SKLR22, YWP+23]. **Multi-Cores** [ZCF20]. **Multi-DNN** [ZDZ+23]. **Multi-GPU** [TDZ+22]. **Multi-Hop** [Akr22]. **Multi-Level** [YH20]. **Multi-Modal** [SSY+21]. **Multi-Mode** [NKL+23]. **Multi-NN** [BLKK23, LMW+24]. **Multi-Node** [SYW+22]. **Multi-NUMA** [ZYL+22]. **Multi-Party** [LHY+21]. **Multi-Program** [LFP+22]. **Multi-Resource** [SCC21, ZZM+22]. **Multi-Segment** [CKP+22]. **Multi-Source** [xHzLH+24]. **Multi-Spin-Flip** [ST23a]. **Multi-Stage** [STZ+24]. **Multi-Stream** [BMM+22]. **Multi-Streaming** [JWS+21]. **Multi-Target** [BCBS21]. **Multi-Task** [KSKK23]. **Multi-Tenant** [WZH+23]. **Multi-Term** [Mik24]. **Multi-Threaded** [CFC+22, MCS+22]. **Multi-Threading** [FNS+22]. **Multi-Tierd** [YTD+21]. **Multi-UAV** [FZM+23]. **Multi-Version** [GXZ+23]. **Multi-Workflow** [WCB23]. **Multi/Many** [LAPB21]. **Multi/Many-Core** [LAPB21]. **Multiagent** [SSW+24]. **Multicasting** [LHK+22]. **Multiclass** [CWC+24]. **Multicore** [BY22, HBS20a, HF22, LB22, LSU+23, MÁJG+24, SCFPM22, XAP20, XNLX20]. **Multidimensional** [WFT+21]. **Multidomain** [TOF+24]. **Multihop** [HZMC24]. **Multilayer** [AZS+23]. **Multilevel** [LWC+22]. **Multiobject** [SSW+24]. **Multiobjective** [ZNW+24]. **Multiple** [ATT22, CSvdBU22, CPL+23, DNMS20, Fic22, HMMP23, KvL22, LLCJ23, RDS23, XST20, ZCK20, ZGL+21]. **Multiple-FPGA** [DNMS20]. **Multiple-Precision** [ZCK20]. **Multiplexing** [WDZ+24]. **Multiplication** [AJ22, BMBM20, ESW+23, KCL+20, KJK+22, LRB23, MDJ20, TWZ+23, WWL+23, ZQY+20, ZCP23, ZLL+24, SYL+23]. **Multiplications** [DSK23, KvL22, PCCK22]. **Multiplicative** [BCCM22, ZDV+22]. **Multiplier** [ACH21, CQI+22, JYM20, LCZ22, PNK+23, USS+21, ZCP22]. **Multipliers** [BK23, ERKP21, HZK24, Ima21, MWJ+24, TOM23]. **Multiply** [SNT22, ZCK20]. **Multiply-Accumulate** [SNT22, ZCK20]. **Multiprocessor** [BBL22, CSvdBU22, MNB20, ZCW+21]. **Multiprocessors** [VSG+23]. **Multitasking** [CHL+23, ZCZ+22, ZWC+23]. **Multithreading** [ROPdlT22]. **Multivariate** [PNK+23]. **MUSE** [YTD+21]. **Mutation** [GZC+21, MXY+23]. **Mutation-Enabled** [MXY+23]. **MViD** [KCL+20].

NAND [KKS+22, LSCX20, PLZ+23, PZY+23, WHL+23, WHK24]. **Narrow** [JKNK24]. **Narrow-Width** [JKNK24]. **Native** [MDPM24]. **NBBS** [MIPQ22]. **NCFET** [SRP+21, SZK+22]. **NDN** [KCS23]. **NDN-Based** [KCS23]. **NDP** [CKJ+22]. **NDRec** [LWH+24]. **NDSTRNG** [CTZ+24]. **Near** [CJYC23, DSK23, HMK+21, KvL22, LWH+24, SMFS21]. **Near-Data** [HMK+21, LWH+24]. **Near-Memory** [CJYC23, DSK23]. **Near-Optimum** [SMFS21]. **Near-Precise** [KvL22]. **Nearest** [BLM21, KSL+22, KPD+23]. **Nearly** [RGS22]. **Nebula** [KLP+21]. **Negative** [KPL+22]. **Neighbor** [KSL+22, KPD+23]. **Nested** [SGL+20]. **Netlists** [CPM+23]. **Nets** [CFWC23]. **Network** [AT23, AHC+20, AGQ+23, BYZZ20, BBC+20, CCT+20, CSK22, DA22, DLY21, FYR+24, GSB23, GXZ+23, GXZ+24, HGK+22, HLC+22, HYW+21, HBB+21, JLZ21, KKS+22, KPL+22, KLR23, LHW+21, LCL+20, LY20, LLY22, MSLY24, MYUK21, MWJ+24, MC23, PN24, RPMH21, RSR22, SLY22a, STW+21, SKM+23, TKM20, VBA20, VAV+20, WFW+20, WDCC20, WYSL22, WLZ+23, XST20, YWP+23, ZZG+23, ZCK20, ZCR23, ZZZ+23, ZHL+24, ZLZ24, ZCC+23, dSdCF22]. **Network-Based** [DA22, RPMH21, TKM20]. **Network-on-Chip** [AT23, HYW+21, HBB+21]. **Network-on-Chips** [XST20]. **Networking** [FQYS23, XLS+24]. **Networks** [Akr22, APH+23, AC22, CDRS20, CR24, CXL+23, DRA21, ESW+23, FXC+23, FHW+22, GYH+22, HGK+22, IIEKS24, JKNK24, JM21, JCZ+23, JLL22, KCL+20, KLP+21, KJK24, KYS+22, KNP+20, LWL+23, LWL+21, LHXH22, LLCJ23, LLC+24, LRL22, LFX+21, NKA24, PCMP21, PCCK22, PYW+22, PPQBA21, PKPR23, RBC+23, RSR22, SPB+21, TKN23, WCQW22, WZX+22, WNL+23, WWC21, XWP+21, XLS+24, XLW+20, YFC+22, YBG+22, ZZZ+20, ZFZ+21, ZXY+24, ZXZ+21]. **Networks-Based** [APH+23]. **Networks-on-Chip** [TKN23, XWP+21]. **Neumann** [CCG+22, ZFD+20]. **Neural** [APH+23, AHC+20, ACH21, AGQ+23, AC22, BBC+20, CCT+20, CZB+22, CR24, CXL+23, CSK22, DA22, DLY21, DRA21, ESW+23, FYR+24, FHW+22, HGK+22, HLC+22, JKNK24, JM21, JLZ21, JLY+21, JLL22, KKS+22, KCL+20, KLP+21, KPL+22, KJK24, KLR23, KYS+22, KNP+20, LWL+23, LWL+21, LPC+21, LCL+20, LRL22, LFX+21, LY20, LLY22, LLK+23, MKY+24, MWJ+24, NKA24, PCMP21, PCCK22, PN24, PPQBA21, PKPR23, RPMH21, RBC+23, RSR22, SPB+21, SZ22, TKM20, VBA20, VAV+20, WFW+20, WDCC20, WZX+22, WWC21, XLS+24, XLW+20, YFC+22, YBG+22, YWP+23, ZZZ+20, ZCK20, ZCR23, ZZZ+23, ZHL+24, ZLZ24, ZCC+23, dSdCF22, CZB+22]. **Neural-PIM** [CZB+22]. **Neuromorphic** [CQ22, LRRK+22, ZGK20]. **Neuron** [LRL22, WFW+20]. **Neuron-Level** [WFW+20]. **Neutral** [CBB+21b, ZHM20]. **Next** [ZLS+24]. **Next-Generation** [ZLS+24]. **NFV** [ZFL+22]. **NGS** [KXGS22]. **NN** [BLKK23, LMW+24]. **NNs** [SZL+24]. **No** [HXGR20]. **NoC** [CCZ+22, DKJP21, PVB21, YL20]. **NoCs** [PC24]. **Node** [SYW+22]. **Nodes** [ZLW+24]. **Noise** [HDAS21, YCS+24, dOCC23]. **Noise-Aware** [YCS+24]. **Non** [BHE21, CWWW20, CTZ+24, FBH+22, Gha21, GNH20, KGHRM23, KRB+22, LJY+24, LY20, MIPQ22, NK22, QCX+23, WFT+21, YBW21, ZGQ+22]. **Non-Binary** [KGHRM23]. **Non-Blocking** [MIPQ22, YBW21]. **Non-Coherent** [KRB+22]. **Non-Deterministic** [CTZ+24]. **Non-IID** [ZGQ+22]. **Non-Interactive**

[QCX+23]. **Non-Normalized** [GNH20]. **Non-Stationary** [Gha21]. **Non-Triangular** [FBH+22]. **Non-Uniformity** [WFT+21]. **Non-Volatile** [BHE21, CWWW20, LJY+24, LY20, NK22, LLY22]. **Noninteractive** [BHW+23]. **Nonlinear** [DDK22, FHH22]. **Nonuniform** [HJYL22]. **Nonvolatile** [ZXD+24]. **Normal** [ERKP21]. **Normalized** [GNH20]. **NOSTalgy** [SMFS21]. **Novel** [AA20, AB22, BHK+23, BFG+21, CDRS20, ERKP21, LHW+21, YHC+20, YFC+22, ZGWY22, ZLC+23a]. **NPN** [ZWM20]. **NPUs** [CHL+23]. **NTRU** [DMG23]. **NTT** [ZQY+20]. **NTT-Based** [ZQY+20]. **NTT-Uncoupled** [ZQY+20]. **NTTU** [ZQY+20]. **NUCA** [RPMH21]. **NUMA** [YLL+24, ZYL+22]. **Number** [AJ22, APK20, CMQ+22, CTZ+24, DSJ+22, HF23, LMDC21, LFX+21, MKÖ+22, YLHL23, ZDV+22]. **Numerical** [CYKG23]. **NV** [CWWW20]. **NV-Journaling** [CWWW20]. **NVDIMM** [WCYK20]. **NVM** [CCT+20, ZGD23]. **NVM-Based** [CCT+20]. **NVM-Storage** [ZGD23]. **NVMe** [MKYP21, PYYG21, PYDG22, YZJ23]. **NVMs** [LJY21]. **NVRAM** [LV23].

O [BMM+22, HYS+20, HWL+21, KJC+21, LJY+24, LYH+24, PE22, WJL+20, ZYXD20, ZZC+23]. **Object** [LLL+20, ZCX+20, ZWY+23]. **Object-Based** [ZCX+20]. **Object-Level** [LLL+20]. **Objectives** [CPL+23]. **Observation** [Fic22, LPD+21]. **Observations** [LQY+20]. **Observing** [TRBM22]. **Occlusion** [YCS+24]. **Occurrence** [LLCJ23]. **Octave** [LGW+22]. **OctCNN** [LGW+22]. **OFEI** [XXJ+24]. **Off** [AG24, BFC20, GXY+23, HPJK22, LGX+22, LZC+24]. **Off-Chain** [GXY+23, LGX+22]. **Off-Chip** [HPJK22]. **Off-Loading** [LZC+24]. **Offline** [JQK+24, LYGC24, WTL+24]. **Offline-to-Online** [LYGC24]. **Offloading** [CKRP21, DWYX20, HZMC24, JWG+23, KLC20, LYGC24, WHM+22, ZGLZ20]. **Offs** [ZHLR22, ZZL21]. **Olympus** [CWT+22]. **OmpSs** [dHBF+21]. **On-Chain** [LGX+22]. **On-Chip** [GvSHA22, JKK+22, KKH22, KRB+22, LY21, TSM+21, WNP+22, JPHY20]. **On-Core** [WSG+23]. **On-Demand** [MHA+20]. **On-Device** [BCRX23, TKM20, ZHL+24]. **On-Line** [LWL+23]. **One** [SZS+22, WMH+24, WGD+22]. **One-Class** [WMH+24]. **One-Size-Fits-All** [WGD+22]. **Online** [BKHY22, CPL+23, HF22, LYGC24, RCS+21, SLY22a, VKRK22, WZH+23, WDW+23]. **Onto** [KH23]. **Open** [FQYS23, KRB+22]. **Open-Source** [FQYS23, KRB+22]. **OpenHD** [KKRK22]. **OpenMP** [SPDQ22, SGL+20, SGS+21]. **OpenVX** [LAPB21]. **Operand** [CJYC23]. **Operand-Oriented** [CJYC23]. **Operating** [GSS+23, MTV+21, dOCC23]. **Operation** [OKC+20]. **Operations** [BLM21, FAFK21, GXY+23]. **Operator** [DA22, MLW+23]. **Opportunistic** [DKJP21, WZW+23, ZFL+22]. **Optical** [STW+21]. **Optimal** [BK23, BLM20, CKP+22, GSC+23, IIEKS24, JWG+23, QHZ+21, ZXW+24, ZLZ24]. **Optimality** [CWT+22, TC21]. **Optimisation** [PSBB21]. **Optimiser** [MHM+23]. **Optimization** [BKHY22, GKT+22, HGC+22, LSCX20, LZW+21, LLJ+23, LPD+21, LZZ+22, MCT22, MRA+21, QCX+23, RCS+21, SPB+21, STW+21, SWR+23, WLQ+21, WGD+22, WWS+22, XWP+21, ZTT22, ZNW+24]. **Optimizations** [CDP21]. **Optimize** [SDR+22, ZCF20]. **Optimized** [BFG+21, CERMH23, CKRP21, HKC+23, OLZ+20, TGS+22, USS+21]. **Optimizing** [CRJZ21, HYS+20, LWC+22, LZW23a, MB21, PCBD23, SLY+22b, WZG+23,

WXL+23, WWX+24, ZCR22]. **Optimum** [SMFS21]. **OPTIMUS** [ODK20]. **Optoelectronic** [STW+21]. **OPTWEB** [MYUK21]. **OQ** [PC24]. **ORAM** [ZLZ+23]. **Orchestration** [CL20, GQJ+22]. **Orchid** [CPL+23]. **Order** [DVV23, RMR22]. **Ordered** [LDF+24]. **Ordinal** [LPC+21]. **Oriented** [CJYC23, DSTD22, MXY+23, PYYG21, YWX+23, YLT+23, ZLL+22a]. **OS-Level** [SCFPM22]. **OSC** [BKHY22]. **OsmoticGate** [QWT+23]. **OurRocks** [CKRP21]. **Out-of-Core** [GLB21, LZZ+22]. **Out-of-Place** [GLB21]. **Outlier** [SZS+22, SCY+23, WMH+24]. **Over-Scaling-Based** [ZSS+22]. **Overhead** [ACKA23, DDK22, WHL+21, WDZ+23, ZLC+22]. **Overloading** [CKK+22]. **Oversubscription** [YLT+23].

P [SLOM+23]. **PackCache** [WDW+23]. **Packed** [ZJW+24]. **Page** [HWC+22a, OAK+23, PYS20]. **Pages** [HWC+22a, YLG+23]. **Paillier** [RSZ23]. **Pairing** [BRPM22]. **PAM** [CQI+22]. **PANTHER** [AHC+20]. **Paradigm** [GZG+23, PD21, PCBD23]. **Paradigms** [TJG+23]. **Parallel** [BLP+22, BCKS22, BLM20, CVOJRH22, DT20, FWZ+21, GSK+22, HYS+20, JGD+21, JCY+23, LHL+21, LCZ22, LLT+23, MC23, PS22, ROPdlT22, UGvdBC23, WLD+22, vSDHA23]. **Parallelism** [BYZZ20, CERMH23, KLKK23, KJK+22, LMW+24, SGL+20, WDZ+24, ZCCG23, ZGL+21]. **Parallelization** [AhRX+20, CKP+22, ZBT22, ZWC+22]. **Parallelization-Aware** [AhRX+20]. **Parameter** [KvL22, QHT+24, ZYZ+23, ZGL+21]. **Parameters** [BMM+22]. **ParaX** [ZYL+22]. **ParBFT** [CERMH23]. **Parities** [YLHL23]. **Parity** [YLL+20]. **PARMA** [AhRX+20]. **PaRTAA** [MNB20]. **Partial** [AVK20, AHK+21, DRY+22, KLKK23]. **Partially** [AHK+21, TKN23, WZG+23]. **Partition** [HS22, NHW+24]. **Partitioned** [Alm23, CBB21a, WZGT22, ZCW+21]. **Partitioning** [CPL+23, LZC+21, LD22, LWL+22, MB21, ODK20, PYS20, WSG+23, XYM23]. **Partitions** [SAG22]. **Party** [LHY+21]. **Pass** [PYDG22]. **Pass-Through** [PYDG22]. **Passing** [TZZ+21]. **Password** [ZLWJ23]. **Past** [SCC21]. **Path** [LXW+23, RJ24, SXZJ24, SM24, UGvdBC23]. **Paths** [FXC+23, JWS+23, ZLC+23b]. **Pattern** [BMM+22, CKJ+22, GWX+23, HYS+20, IIEKS24, MHDMEA22, MFRR20, ZG23, ZCX+20]. **Pattern-Directed** [HYS+20, ZCX+20]. **Patterns** [DQ23, RRDB20]. **Payment** [JQK+24]. **PCB** [PK23]. **PCM** [AG24, IKTY22]. **PE** [WDQ+22, ZGWY22]. **PE-Interactive** [WDQ+22]. **Penalty** [DKJP21, SSK22]. **Penalty-Aware** [SSK22]. **Pentanomials** [LCZ22]. **Per-Operation** [OKC+20]. **Perception** [LYF+22]. **Perceptron** [AZS+23]. **PERCIVAL** [MDPM24]. **Perform** [LYC22]. **Performance** [AG22, BRS+24, CJSY24, CGS+20, CBB+21b, DQ23, EAMJ+23, EAMK22, FHL+22, FTR23, GQZ21, GWCS23, GKFF20, HKC21, HHPB20, HLT+23, JWS+23, KLL21, KRB+22, KIY21, LG22, LFW21, LZW+23b, MRA+21, NKeSK+23, OAC+21, OJ23, QHZ+21, RPMH21, SSM23, SSZ+20, TRBM22, WLR20, WFT+21, WLQ+21, WCL+23, WFH+24, WWS+22, WJL+20, WDZ+23, WSHJ23, WHK24, XWP+21, YLG+23, YLL+24, ZZL21, ZLWJ23, ZDY+23, dHBF+21]. **Performance-Aware** [GKFF20]. **Performance-Energy** [ZZL21]. **Performance-Neutral** [CBB+21b]. **Performance-Power** [ZDY+23]. **Period** [CMQ+22]. **Periodic** [BPM23, GPRV23, MBP21, RDS23]. **Periodicity** [DMD+23]. **Peripherals**

[CZB+22]. **PermCNN** [DLY21]. **Permutating** [SL23]. **Permutation** [CMQ+22]. **Permutations** [UYZP22]. **Permutations-Based** [UYZP22]. **Permuted** [DLY21]. **Persistent** [CSW+21, FCZ+23, JWS+23, WBJC22]. **Perspective** [SMP22, SZAT22, ZDZ+23, ZCB23]. **Perspectives** [PG23]. **Pervasive** [HZYY22]. **Petri** [CFWC23]. **Phase** [CCYC22, KIY21, LLS+23, LKMJ21]. **Phase-Change** [LLS+23, LKMJ21]. **Physical** [FV23, HGC+22, JLZ+23, LYF+22, PKPR23, TOF+24]. **Physics** [JDCL23, WZD+20]. **Physics-Based** [JDCL23]. **Physics-Limited** [WZD+20]. **Piecewise** [CQI+22]. **Piecewise-Linearly-Approximated** [CQI+22]. **PIETT** [OLD+23]. **PIM** [CZB+22, JCZ+23, KJK+22, MSSL21]. **PIM-Accelerated** [JCZ+23]. **PIM-Based** [MSSL21]. **Pipeline** [APV22, LPW20, WLW+22b, YBW21]. **Pipelined** [BMLOM20, Bru23, DSP+21, WGL+20]. **Pipelining** [NKeSK+23]. **PISO** [ERKP21]. **PIT** [ZXZ+21]. **PITEM** [UYZP22]. **Place** [BCKS22, GLB21]. **Placement** [BYZZ20, HHPB20, MSLY24, SLY22a, SKM+23, XZL+21, XZL+23, XWL+24, ZYZ+23]. **Plane** [WZD+20]. **Plane-Wave** [WZD+20]. **Planner** [LXW+23]. **Planning** [SM24]. **Plant** [BYZZ20]. **Plasticity** [XNB21]. **Plasticity-on-Chip** [XNB21]. **Platform** [CCY+24, KPD+23, KRB+22, LPW20, MSP+21, ZHLR22]. **Platforms** [FWZ+21, FLF20, LSU+23, SSK22, SKLR22, WWX+24]. **PM** [LYH+24]. **PM-DRAM** [LYH+24]. **PMDB** [ZGD23]. **PMLiteDB** [JWS+23]. **PODTherm** [JDCL23]. **PODTherm-GP** [JDCL23]. **Point** [BLM21, Bru20, Bru23, CQI+22, GNH20, KBR+23, LQY+20, MDJ20, Mik24, NHW+24, NKL+23, TOM23, VHL20, WFT+21, ZSHB21]. **Poisoning** [ZZZ+23]. **Policies** [MAM23]. **Policy** [HWC+22a, OKC+20, SCFPM22, ZWSF24]. **Polling** [PYDG22]. **Polymorphic** [AC22, PB23b]. **Polynomial** [CMQ+22, CWNL22, PNK+23, TWZ+23, WWL+23]. **Popularity** [CZJ21]. **Popularity-Aware** [CZJ21]. **Portable** [LZS+24]. **Posit** [LFX+21, MDPM24]. **Positive** [RSMMG+23]. **Post** [GMZ22, KGHRM23, SZAT22]. **Post-Quantum** [GMZ22, KGHRM23]. **Post-Silicon** [SZAT22]. **Potential** [KLKK23]. **POWER** [LFP+22, ABP22, BCBS21, FTR23, GKFF20, HBS20a, HBB+21, KLR+20, KASAG23, LLJ+23, OAC+21, OAB+23, OJ23, PLZ20, RAD20, RSP+20, SRP+21, TDH+23, YL20, ZQY+20, ZDY+23]. **Power-** [GKFF20, RSP+20]. **Power-Constrained** [OAB+23]. **Power-Efficient** [FTR23, SRP+21]. **Power-Gating** [HBB+21]. **Powered** [KKRK22, LJY21, ZXD+24]. **PPCC** [YL20]. **PR** [KLKK23]. **PR-SSD** [KLKK23]. **Practical** [HWG+23, HXL+23, LQN+21, TZY+24, WNP+22, YNJS21]. **Practice** [RBSG23]. **Pre** [BAM+24, HLF+23, KNP+20]. **Pre-Alignment** [BAM+24]. **Pre-Defined** [KNP+20]. **Pre-Training** [HLF+23]. **Precise** [FL21, HJYL22, KvL22, VSG+23]. **Precision** [God20, LY20, ZCK20, ZDV+22, dSBS+22]. **Preconditioned** [YGW+23]. **Preconditioning** [LLL+23]. **Predictability** [PFHD21, ZCB23]. **Predictable** [BHE21, FBM21, GCR+23, JWD+22, KHP21, XQC+22]. **Predicting** [AMM21, LPC+21, PZY+23]. **Prediction** [BMBM20, HLS+23a, xHzLH+24, LLX+24a, LL23, MHA+20, PLZ+23, RPMH21]. **Predictive** [KPL+22, MTV+21, OJ23, PS22].

Predictor [MKY+24, ZXD+24]. **Predictors** [CY22]. **Preemptive** [LKK+21]. **Prefender** [LHFW24]. **Prefetch** [LFP+22]. **Prefetcher** [AGB+23, RJ24]. **Prefetching** [LHFW24, WNP+22]. **Prefix** [BLM20, RGS22]. **Preprocessed** [JZH+24]. **Preprocessing** [KLC20, QZZ+24]. **Preprocessing-Based** [QZZ+24]. **Presence** [YNJS21]. **Preservation** [XNL+23]. **Preserving** [BHW+23, FHL+23, LMM+23, SO23, WRW+23, XZC+23, ZFQ+23, ZWB+22]. **Pressure** [MB21]. **PRESTO** [SSK22]. **Pretender** [LHFW24]. **Prevent** [ODK20]. **Preventing** [OD23]. **Prevention** [WSG+23]. **Pricing** [WLW+21]. **Primary** [LLS+22]. **PRIMER** [DYPZ22]. **Primitives** [LZW+23b]. **Printed** [AZS+23]. **Priorities** [SPDQ22]. **Priority** [BBL22, FL21, JCY+23, ZABHCG23, ZCW+21]. **Privacy** [BHW+23, CWY+23, FHL+23, FYR+24, GZG+23, LMM+23, MDM22, RSMMG+23, SO23, WRW+23, XZC+23, XNL+23, YCY+24, ZC24, ZWB+22]. **Privacy-Breaching** [MDM22]. **Privacy-Enhanced** [CWY+23]. **Privacy-Preserving** [BHW+23, FHL+23, LMM+23, SO23, XZC+23, ZWB+22]. **PrivAim** [WRW+23]. **Private** [CGLS21, CXL+23, HC24]. **Privileged** [MZZC22, XHY+22]. **Proactive** [MXY+23, SKK+21]. **Probabilistic** [BSM21]. **Probabilistically** [LCHK22]. **Probability** [SXZJ24]. **Problem** [ZWWY22]. **Problems** [ZTT22]. **Procedure** [dSdCF22]. **Process** [CSW+21, KKB+22, MZZC22]. **Processing** [ABP22, BBC+20, BCBS21, CZB+22, CZJ21, CKJ+22, CJYC23, DWL+22, GWH+23, GWX+23, HMK+21, LZC+21, LLT+23, LWH+24, LZZ+22, LLX+24b, RGS22, WDQ+22, ZFZ+21, ZCD+22, ZLZ24, ZMS+23, ZCSJ23, ZXZ+21, ZGK20]. **Processing-In-Memory** [CZB+22, ZCSJ23]. **Processing-In-Transmission** [ZXZ+21]. **Processor** [KBQ+23, LPW20, MHS+20, WLW+22c, XTWG23, ZSHB21, ZLL+22a]. **Processors** [AG22, CWT+22, CCC23, DMX+22, FWM+23, FNS+22, KKKC20, KH23, LJY21, LAKS20, Lu21, MBP21, ODK20, RCS+21, SNN21, TSM+21, WZCM23, XKS21, XLW+20, ZXD+24]. **Product** [PN24, ZCP23]. **Production** [FV23]. **Profiling** [CYKG23, DYPZ22, OJ23]. **Program** [LCJ+24, LFP+22]. **Programmable** [AHC+20, BRPM22, LCJ+24]. **Programming** [HWJ+21, LD22, NM22, VCLN21]. **Programs** [WSM+24]. **Progression** [UGvdBC23]. **Prolongation** [GSB23]. **Proof** [CYX+23]. **Proof-of-Market** [CYX+23]. **Proportional** [HWL+21, PE22]. **Protect** [LCHL21]. **Protecting** [BLH+21, SRB23, WZSL22]. **Protection** [CZC+21, HP23, LWL+23, LLX+24a, SSP+24, YCY+24, ZC24]. **Protocol** [FL21, JQK+24, LV23, SL23, SO23, TWL+22, WHL+21]. **Protocols** [KHP21]. **Prototype** [YZX+24]. **Prototype-Based** [YZX+24]. **Provably** [XLWO23]. **Provisioning** [CB22, WCB23, ZQG+24, ZXY+24]. **Proximal** [WYSL22]. **PRS** [ZCX+20]. **Prune** [BYZZ20, DYJ20]. **Pruning** [KPL+22]. **Pseudo** [ZSHB21]. **Pseudorandom** [HF23]. **PSO** [RSZ23]. **PSO-Based** [RSZ23]. **PStream** [CZJ21]. **Public** [LLWZ23]. **Public-Key** [LLWZ23]. **Publish** [DWL+22]. **Publish/Subscribe** [DWL+22]. **PUF** [PCA+23, XLWO23]. **PUF-TRNG** [PCA+23]. **PUF2** [HWC+22b]. **Pulse** [NM22]. **Pulse-Level** [NM22]. **Purpose** [ZLL+24]. **Pursuing** [YL20]. **PyLog** [HWJ+21]. **PyQUBO** [ZTT22]. **PySchedCL** [GSK+22]. **Python** [CYKG23, HWJ+21, ZTT22].

Python-Based [HWJ+21]. **PyTracer** [CYKG23].

QoS [BKHY22, LLX+24a, ZCZ+22]. **QoS-Awareness** [ZCZ+22]. **Quality** [BCRX23, SMFS21, WRW+23, XWP+21, YZX+24, YHV+21]. **Quality-Aware** [WRW+23]. **Quality-Energy** [SMFS21]. **Quality-of-Experience** [BCRX23]. **Quantified** [TWJ+22]. **Quantitative** [CRJZ21, TPWY23]. **Quantization** [GCL+21, NKA24, SSJ21, WZJ+24]. **Quantization-Aware** [NKA24]. **Quantized** [JKNK24]. **Quantum** [BYM22, CLCL22, EGMW21, EAMJ+23, FHW+22, GMZ22, HXL+23, KGHRM23, KB21, LLFT23, MHDMEA22, SL23, TC21, ZYD+20, ZDW+23, dSdCF22, ddAPdS21]. **Quantum-Classical** [KB21]. **Quantum-Resistant** [ZYD+20]. **Qubit** [LZF21]. **QUBO** [ZTT22]. **Queries** [XXL+23]. **Query** [DWL+22, TWaKo+23]. **Queueing** [WLR20]. **Queues** [YH20]. **Queuing** [CB22]. **Quotient** [LSW+23].

R [HHN+23]. **R-HTDetector** [HHN+23]. **Racetrack** [HKC+23, KOH+23, WLW+22a, WLW+22b]. **Racetrack-ReRAM-Combined** [WLW+22b]. **Rack** [GSC+23]. **Rack-Coordinated** [GSC+23]. **Rad** [LW22]. **Rad-Hard** [LW22]. **Radiation** [YHC+20]. **Radio** [LLC+24]. **Radix** [Bru23, GL24, HSE+24, LDLK22, LSW+23, ZCP22]. **Radix-4** [HSE+24]. **Radix-64** [Bru23]. **RAM** [HLLC21]. **Random** [CMQ+22, CTZ+24, GWG+24, LCH22, PL21, SWR+23, WXL+23, ddAPdS21, PL21]. **Randomize** [LBC24]. **Randomizing** [SXH+24]. **Range** [WYB+24, ZGD23]. **Range-Based** [ZGD23]. **Range-Limited** [WYB+24]. **Rank** [HWG+23]. **Rank-Code-Based** [HWG+23]. **Ransomware** [BJM+21, GWCS23]. **Rare** [PCCK22]. **Rasta** [RKMR23]. **Rate** [CFA22, LL23, RGS22]. **Rate-Adjusted** [LL23]. **Ratio** [CWC+24, LLL+23]. **RCFI** [PL21]. **RCGL** [XSYL22]. **RDMA** [LV23, XLY+22]. **Re** [LRL22]. **Re-Computation** [LRL22]. **ReAAP** [ZLL+22a]. **Reaching** [CWT+22]. **Read** [BAM+24, CFA22, KLKK23, KXGS22, LPD+21, PM20, WDZ+22, WHK24]. **Read-Ahead** [LPD+21]. **Read/Write** [WDZ+22]. **Real** [AOM+21, BHE21, BY22, BCCM23, BGB+21, CBB21a, CSvdBU22, CKP+22, DSK23, DWN+22, FHL+23, GPRV23, GQH21, Has23, HF22, HECC+21, HLS+23b, JSTG20, JGD+21, JYF+23, JYM+23, KHP21, KH23, LJY21, LL22, LZW+21, LYF+22, MNB20, MSP+21, PS22, QWT+23, RDS23, SZAT22, SSK22, STK23, SM22, SGL+20, WZGT22, YCL+24, ZABHCG23, ZLW+24, ZHM20]. **Real-Time** [BHE21, BY22, BCCM23, CBB21a, CSvdBU22, CKP+22, DSK23, DWN+22, FHL+23, GPRV23, GQH21, Has23, HF22, HECC+21, HLS+23b, JSTG20, JGD+21, JYF+23, JYM+23, KHP21, KH23, LJY21, LL22, LZW+21, LYF+22, MNB20, MSP+21, PS22, QWT+23, RDS23, SZAT22, SSK22, STK23, SM22, SGL+20, WZGT22, YCL+24, ZABHCG23, ZLW+24, ZHM20]. **Real-World** [AOM+21, BGB+21]. **Realistic** [SKK23]. **Realization** [AA20, CXL+23]. **Realize** [CCYC22]. **Reaping** [WHL+23]. **Recognition** [GYH+22, MHDMEA22, MFRR20, SSM23, YAG20]. **Recommendation** [LWH+24, WGM+20]. **Reconfigurable** [AHK+21, BCBS21, CDRS20, CCG+22, DPQK+23, EAMJ+23, LB22, LHL+23, RBMG22, ROPdlT22, SPB+21, ZLS+24, ZLL+22a]. **Reconfiguration** [DRY+22]. **Reconstruction** [WHQ+24]. **Recording** [WLZ+21, ZYXD20]. **Records** [WWL+23]. **Recovery** [BJM+21, TZ22, XLL+22, ZLWJ23].

Rectangular [GLB21]. **Recurrence** [HSE+24]. **Recurrent** [FYR+24, KCL+20, PCMP21]. **Recursion** [WLD+22]. **Recursion-Tree** [WLD+22]. **Redactable** [TWaKo+23]. **Reduce** [DKJP21, DH20, ESN20, MSZ22, OTTT22, QHT+24, WZX+22]. **Reduced** [BB22, DPS22, JLZ21, YZX+24, dSBS+22]. **Reducibility** [BCV22]. **Reduction** [CFA22, HZK24, KOH+23, LWC+22, MHDMEA22, ST23b, XST20, ZJW+24]. **Redundancy** [Das23, DZC+24, LSXZ21, YZX+24]. **Redundant** [DSJ+22, LHK+22, LMDC21, PCCK22, YHC+20]. **Reed** [MCT22, TZ22, YLL+20, YLHL23]. **Reference** [ZZZ+23]. **Refreshable** [FW23]. **Refreshing** [FW23]. **Region** [MSW+21]. **Region-Based** [MSW+21]. **Regional** [ZHYJ21]. **Register** [WHC20]. **Register-Based** [WHC20]. **Registers** [SZHB21]. **Regular** [BCCM22, NTR21]. **Regularity** [DPCL22]. **Regularity-Based** [DPCL22]. **Reinforcement** [HZM+23, LWL+22, LYGC24, LZC+24, PZY+23, SSW+24, STQ+24, WHM+22, WCB23, WTL+24, WJL+20, ZGLZ20, ZNW+24, ZLL+22b, ZWSF24, ZHYJ21]. **Related** [BKS22, ZLW+24]. **Related-Key** [ZLW+24]. **Relaxed** [SEM23]. **Relevant** [RWCC23]. **Reliability** [DSTD22, GA22, GvSHA22, KOH+23, KAA20, KIY21, LHW+21, PLZ+23, RCS+21, SXZJ24, WHL+23, XSYL22, ZQG+24]. **Reliability-Critical** [SXZJ24, XSYL22]. **Reliability-Oriented** [DSTD22]. **Reliable** [BBC+20, HWC+22b, KYS+22, LKMJ21, TGA23, VHL20, WFW+20]. **Relocation** [HYW+21]. **ReLU** [KPL+22]. **Remainders** [AVK20]. **Remap** [HS22]. **Remap-Based** [HS22]. **Remapping** [HKS20]. **Remapping-Based** [HKS20]. **Remodeling** [ZHL+24]. **Remote** [KCS23, LQN+21, MKH+21, SNA+20]. **Remotely** [TQL+22]. **Removing** [PCCK22]. **Rendering** [YCL+24]. **Reordering** [ESN20, LLX+24b, NP20]. **Repair** [LSXZ21, SLS+21]. **Repetitive** [PCCK22]. **Replacement** [CCC23, MAM23, ZWSF24]. **Replication** [HYS+20, ZCX+20]. **Representation** [LMDC21, TWL+22]. **Reputation** [ZCD+22]. **Reputation-Based** [ZCD+22]. **Request** [YCKW20]. **Requests** [PVB21, WLD+22]. **ReRAM** [WLW+22b, AHC+20, BTEC20, JLZ21, KSKK23, KJK24, LWL+23, SKK23, WWM+23]. **ReRAM-Based** [BTEC20, JLZ21, KJK24, LWL+23, SKK23, WWM+23]. **Research** [Xu24]. **Reservation** [WL20]. **Reservoir** [SMY22]. **Reshaping** [HLQ+23]. **Residue** [AJ22, APK20, CMQ+22, DSJ+22]. **Resilience** [HPGM20, JDB+23, YNJS21]. **Resilient** [BLP+22, BJMKK23, IKAG+22, STK23, TCX+23, YHC+20]. **Resistance** [LGC+23]. **Resistant** [ZYD+20]. **Resolution** [MHDMEA22]. **Resonance** [HDAS21]. **Resonance-Induced** [HDAS21]. **Resource** [AZS+23, CPL+23, CCY+24, HMMP23, HLS+23b, IMQOP21, LWL+22, LCJ+24, LZC+24, PYS+23, PSBB21, SCC21, TCJ23, WDZ+24, XYM23, ZLWG22, ZGQ+22, ZLC+22, ZNW+24, ZCC+23, ZCCG23, ZZM+22, ZHYJ21]. **Resource-Aware** [LCJ+24, XYM23]. **Resource-Constrained** [LZC+24]. **Resource-Scarce** [ZLC+22]. **Resources** [HZR+23, ZCW+21]. **Response** [CRJZ21, SNRB23, ZABHCG23]. **Responsiveness** [LWL+22, ZYXD20]. **Restoring** [AVK20]. **Results** [GNH20]. **Retargeting** [IIEKS24]. **Retention** [YWC+21, YH20]. **Retention-Time** [YH20]. **Rethinking** [OAK+23]. **Retrieval** [LMM+22]. **Return** [YHV+21]. **Reusability** [OKC+20, PYS20]. **Reusability-Based** [PYS20]. **Reuse** [CNOS22, HLQ+23, JM21, SIR20].

Reuse-Centric [CNOS22]. **Reusing** [JZH+24]. **Reveal** [XGZ+24]. **Revealing** [MTV+21, WLW+22c]. **Reverse** [SPMP20, XTWG23]. **Reverse-Engineering** [XTWG23]. **Reversible** [BYM22]. **Reviewers** [Ano20b]. **Revisit** [WZJ+24]. **Revisiting** [DVV23, MCT22, RBSG23]. **Revocable** [GLGL23]. **Reweighted** [WYSL22]. **Rigorous** [VHL20]. **Ring** [LAKS20]. **Ring-LWE** [LAKS20]. **Rings** [BPM23]. **RISC** [ABP22, CWS+24, CKK+22, FHL+22, GCR+23, HMJ24, KGHRM23, SMP22, SZHB21, TDH+23, WLW+22c, WWX+24, ZHLR22]. **RISC-V** [ABP22, CWS+24, FHL+22, GCR+23, HMJ24, KGHRM23, SMP22, SZHB21, TDH+23, WWX+24, ZHLR22]. **Risk** [EGMW21]. **Risks** [HLC+22]. **RLWE** [KDE+24]. **RLWE-Based** [KDE+24]. **RNS** [SYL+23, SPMP20]. **Robotic** [LHL+23]. **Robotics** [HR22]. **Robots** [LXW+23]. **Robust** [HHN+23, JMW+24, LGC+23, RSA+20, SNA+20, SCY+23, TSM+21, YCS+24, ZTY+23]. **Robustness** [PPQBA21]. **ROCKY** [TSM+21]. **ROLLED** [HKC+23]. **ROLLO** [HWG+23]. **Roofline** [SDR+22]. **Root** [Bru20, Bru23, HSE+24, LSW+23, NAP+20]. **Rootkit** [LCHL21]. **Rotation** [GLB21]. **Round** [BFC20, BLM21, SAJA21, ZLW+24]. **Round-Off** [BFC20]. **Round-to-Nearest** [BLM21]. **Rounded** [God20]. **Rounds** [DPS22]. **Route** [HMK+21]. **Router** [HYW+21]. **Routers** [LDLK22, PC24]. **Routes** [CCZ+22]. **Routing** [FXC+23, MSLY24]. **Row** [ZGWY22]. **RRAM** [KYS+22, WFT+21]. **RRAM-Based** [KYS+22]. **RRPN** [XCZ+22]. **RRPN-Based** [XCZ+22]. **RSA** [DVA22, RSZ23]. **RT** [JYF+23]. **RTL** [FWM+23, LM21]. **Rule** [ZLWJ23]. **Rule-Based** [ZLWJ23]. **Run** [AhRX+20, CBB+21b, HMMP23, PK23, SMFS21]. **Run-Time** [AhRX+20, CBB+21b, HMMP23, PK23, SMFS21]. **Runge** [BFC20]. **Running** [LBC24]. **Runtime** [CZC+21, LHL+23, SPDQ22, WLQ+21, WCZ+24, WLC+24]. **RUPA** [ZLWJ23]. **RvDfi** [FHL+22].

S [CLCL22, KKS+22, PVB21, RPMH21, RMTA20]. **S-Box** [CLCL22]. **S-Boxes** [RMTA20]. **S-FLASH** [KKS+22]. **S-NUCA** [RPMH21]. **S-SMART** [PVB21]. **S2** [YFC+22]. **SaaS** [ZDY+23]. **Saber** [DMG23, WWL+23, ZHLR22]. **Saca** [TPWY23]. **Saca-AVF** [TPWY23]. **SAFA** [WHL+21]. **SafeDRL** [ZQG+24]. **Safety** [KMH+23, KBR+23]. **SAFLA** [RDS23]. **SAMBA** [KAWR23]. **Same** [PCA+23]. **Sample** [XXJ+24]. **Sampler** [ZSS20]. **Sampling** [CTZ+24, Gha21, KAA22, KLL21, WXL+23, WSHJ23]. **Sampling-Based** [CTZ+24, WSHJ23]. **Sandbox** [GZG+23]. **Sanitization** [WHL+23]. **SAT** [IIEKS24, ZG23]. **Satisfiability** [TWJ+22]. **Saving** [CBB+21b]. **Savings** [XST20]. **Scalability** [HR22, WXL+23]. **Scalable** [CYX+23, DSJ+22, DRY+22, EAMJ+23, GMZ22, GXY+23, LQC+22, LM21, MKYP21, RBMG22, RCAB23, WGL+20, XNLX20, YZJ23, ZCP22]. **Scalar** [BMBM20]. **Scale** [AB20, JKHL22, KPD+23, LZC+21, LDG+22, LWH+24, SYW+22, SCY+23, YCKW20, YCY+24, ZCJ+20, ZCSJ23]. **Scale-up** [AB20]. **Scaling** [LHK+22, WFW+20, ZZL21, ZSS+22]. **Scan** [CDRS20, CKRP21]. **Scarce** [ZLC+22]. **Scarcity** [CZR22]. **Scattered** [SLS+21]. **SCAUL** [RAD20]. **Scenario** [HHZ+23, KH23, ZHYJ21]. **Scenario-Based** [HHZ+23, KH23]. **Scene** [XCZ+22]. **Schedulability** [LJY21, XAP20]. **Scheduled** [CFWC23]. **Scheduler** [GYS+24, SSK22]. **Scheduling**

[BLP+22, BBL22, CR24, CSvdBU22, CCY+24, DRY+22, DPS+20, GPRV23, GQH21, GPQ22, GPQ23, IWKB22, JSTG20, JCY+23, JWS+21, KKB+22, LKK+21, LL22, LHL+21, LSU+23, LYF+22, LAPB21, MBP21, MÁJG+24, RDS23, SNN21, SKLR22, STW+21, STK23, SGL+20, STQ+24, UGvdBC23, VSG+23, WCB23, WZW+23, WZH+23, WZGT22, XAP20, YWX+23, ZDZ+23, ZCR23, ZNW+24, ZYZ+23, ZLL+22b, ZLZ+23, ZHYJ21]. **Scheme** [BHW+23, BBC+20, CLZG22, CERMH23, DZC+24, HZK24, LHR+23, LYW+23, MSW+21, MKH+21, ODK20, PYS+23, SNRB23, STZ+24, XLL+22, YH20, YYQ+24, ZCX+20, ZCF20, YAG20]. **Schemes** [HWG+23, SYL+23]. **Schnorr** [BSRP21]. **Schnorr-Based** [BSRP21]. **Scientific** [LWC+22, MDPM24, WCL+23]. **SciNet** [TCJ23]. **Scrabble** [ZZG20]. **Search** [BCKS22, JXH+22, KSL+22, KPD+23, LZF21, LMM+23, LLK+23, MKY+24, RBC+23, XLS+24, dSdCF22]. **Secret** [SL23, AOM+21]. **Secrets** [CY22]. **Section** [CDP21]. **Sections** [CSvdBU22]. **Secure** [CCT+20, CYX+23, CXL+23, CCY+24, DMX+22, JMW+24, JQK+24, JHMM23, LHR+22, LZS+24, LQN+21, LKMJ21, LCC+24, NAP+20, PD21, SRB23, SKR+20, SHZ+24, WHC20, WCZ+24, XLWO23, XGZ+24, XKS21, XZC+23, YYQ+24, ZSC+23]. **Security** [APH+23, Ano23, AW20, BSRP21, FHL+22, FWR+20, JLZ+23, MDJ20, MHS+20, ODK20, RWCC23, WSS+20, ZSS+22, ZLH+21]. **Security-Centric** [ODK20]. **Security-Critical** [JLZ+23]. **Security-First** [MHS+20]. **Segment** [CKP+22]. **Segmentation** [KMVD22, ZGWY22]. **Selection** [HSE+24, LSW+23, RCS+21, SLY+22b, TKN23, XWL+24, ZSX+24]. **Selective** [CFA22, LRL22, SKR+20]. **Self** [BKHY22, ERKP21, FBH+22, FW23, XNB21]. **Self-Configuring** [BKHY22]. **Self-Dual** [ERKP21]. **Self-Refreshable** [FW23]. **Self-Similarity** [XNB21]. **Self-Synchronizing** [FBH+22]. **Semantic** [SZHB21]. **Semantically** [AOM+21]. **Semi** [CBB21a, GPRV23, WHL+21, XXJ+24]. **Semi-Asynchronous** [WHL+21]. **Semi-Black-Box** [XXJ+24]. **Semi-Partitioned** [CBB21a]. **Semi-Periodic** [GPRV23]. **Sensing** [SSY+21]. **Sensitive** [FQYS23, ZLL+22b]. **Separable** [LCL+20]. **Sequence** [CDRS20, CMQ+22, KLR+20, QHZ+21, TZY+24, TWJ+22, ZTY+23]. **Sequence-Based** [TZY+24]. **Sequences** [MYGA20]. **Sequencing** [CPB21]. **Serial** [ERKP21, Ima21]. **Serialized** [WLW+22a]. **Server** [ZYZ+23, ZGL+21]. **Serverless** [WDZ+24, XQC+22, XZL+23, ZFL+22]. **Servers** [WLR20]. **Service** [BY22, GQJ+22, LCC+24, MXY+23, NT23, SLY22a, ZXY+24, ZWC+23]. **Service-Oriented** [MXY+23]. **Services** [JMW+24, JZY+23, LQN+21, LLX+24a]. **Serving** [ZDZ+23]. **Set** [HLL+20, HMJ24, LLC+24, SXH+24, ZGWY22]. **Set-Associative** [SXH+24]. **Sets** [WGM+20, WWX+24]. **Setting** [HXGR20]. **Setup** [vSDHA23]. **Seven** [YLL+20]. **SGD** [ACKA23]. **SGX** [CDF+21, WZSL22, WLC+24]. **SGX-Friendly** [WLC+24]. **Shadow** [ZLW+24]. **Shadows** [TDMP23]. **Shape** [MLW+23]. **Shard** [ZCH+24]. **Sharding** [NT23, ZCH+24]. **Share** [XGZ+24]. **Share-Transform-Reveal** [XGZ+24]. **Shared** [BY22, CLZG22, LHK+22, RCAB23, XAP20, XLY+22, ZCW+21]. **Shares** [XGZ+24]. **Sharing** [GZG+23, HWL+21, LHR+23, PE22, WZH+23, YYQ+24, ZZG+23]. **Shift** [KOH+23]. **Shifting** [OLD+23, OAB+23]. **Shingled** [CLY22, ZYXD20]. **Shooting** [KBR+23]. **Short** [BAM+24, KXGS22].

Shuhai [HWZ+22]. **Siamese** [WNL+23]. **Side** [BKS22, DYPZ22, FWM+23, HPGM20, HLS+23b, JCKH22, KLR+20, LHFW24, OD23, RAD20, SSP+24, SXH+24, TOF+24, UYZP22, XPR+22, YWC+24, ZYD+20, ZXL+23]. **Side-Channel** [DYPZ22, HPGM20, JCKH22, KLR+20, RAD20, SSP+24, SXH+24, UYZP22, XPR+22, ZYD+20, ZXL+23]. **SIDH** [CVOJRH22, LLWZ23]. **Signal** [ABP22, FLF20, KLC20, UYZP22, WHC+23]. **Signaling** [IDFH22]. **Signals** [SNA+20]. **Signature** [AMJ+23]. **Signed** [USS+21, SNRB23]. **Significant** [LLFT23]. **SIKE** [SAJA21, EAMK22, TWL+22, ZYD+20]. **Silent** [BLP+22, LV23, PG23]. **Silicon** [GZC+21, LLJ+23, SZAT22, WLQ+21]. **Sim** [SM22]. **Sim-D** [SM22]. **SIMD** [CCG+22, SM22]. **Similarity** [CPB21, FWR+20, XNB21]. **Similarity-Based** [CPB21]. **Simple** [MKH+21]. **Simulation** [AKG+20, BCMT23, GPH20, JDCL23, LDG+22, RPS+21, RMR22]. **Simulations** [PS22]. **Simulator** [QHT+24]. **Simultaneously** [LWNC22]. **Single** [CKP+22, DT20, FW23, FHW+22, JJKP22, KvL22, MKY+24, SZHB21, YNJS21]. **Single-** [YNJS21]. **Single-Cycle** [FW23]. **Single-Domain** [MKY+24]. **Single-Flux-Quantum** [FHW+22]. **Single-Issue** [SZHB21]. **Single-Machine** [JJKP22]. **Single/Multi** [CKP+22]. **Single/Multi-Segment** [CKP+22]. **Situ** [KJK24, LY20]. **Size** [WGD+22]. **Sketches** [RMO21, WLZ+23]. **Sky** [ZCSJ23]. **Sky-Sorter** [ZCSJ23]. **Skyline** [DWL+22]. **SLA** [IWKB22, YTD+21, ZGB+21]. **SLA-Based** [IWKB22]. **SLA-Driven** [YTD+21]. **Slice** [FWZ+21]. **Sliced** [DVV23]. **Sliding** [DWL+22]. **SM** [ZCCG23]. **Small** [JYM20]. **Smart** [BBJR21, FLF20, HJYL22, ROPdlT22, TOF+24, ZWB+22, CCZ+22, PVB21]. **SmartNIC** [LDF+24]. **Smooth** [DVA22]. **SMR** [MSW+21]. **SNARK** [QCX+23]. **Snitch** [ZSHB21]. **SNN** [JKK+22]. **SNRC** [LRL22]. **SNs** [WNL+23]. **SoC** [CTZ+24, RMKO23, TDH+23, WCZ+24]. **Social** [SSY+21]. **SoCs** [FBM21, JYF+23, RPB+23, SPB+21, SBP+20]. **Soft** [BPJ+22, BCMT23, RMO21]. **Softcore** [USS+21]. **Software** [CQ22, DPS+20, GKFF20, GWZ+21, JLZ21, KMH+23, LAKS20, MZZC22, PYS+23, TWL+22, WZD+20, XCZ+22, XLW+20, YLC+21, ZFZ+21, ZZZ+20]. **Software-Defined** [YLC+21]. **Software-Hardware** [PYS+23, ZFZ+21]. **Software/Hardware** [WZD+20, ZZZ+20]. **Solid** [HKS20, HS22, YCKW20]. **Solid-State** [HKS20, HS22, YCKW20]. **Solomon** [MCT22, TZ22, YLL+20, YLHL23]. **Solution** [ATT22, LZS+24, PYDG22]. **Solutions** [SMZ+20]. **Solving** [AHK+21]. **Some** [DPS22]. **Sort** [EDGR+24, MKYP21]. **Sorter** [ZCSJ23]. **Sorting** [BLM20, LWNC22, PLB22, XNLX20, ZCSJ23]. **SOT** [JKK+22, KJK+22]. **SOT-MRAM** [KJK+22]. **Source** [BSM21, FQYS23, xHzLH+24, KRB+22]. **Source-Dependent** [BSM21]. **Space** [CPM+23, LHR+22, LLFT23, LL23, MHJ+21, QHZ+21, YLL+24, YLC+21]. **Space-Efficient** [LHR+22]. **Spanning** [WCQW22]. **Spark** [IWKB22]. **Sparse** [CCT+20, GXL+24, KCL+20, LQC+22, PCCK22, SLY+22b, WDQ+22, YFC+22, ZZZ+20, ZLL+24]. **Sparsification** [WYSL22]. **Sparsity** [GSY+20, KKS+22, KAWR23, KNP+20, SZL+24]. **Spatial** [CHL+23, DWL+22, ZCZ+22, ZGK20]. **Spatial-Keyword** [DWL+22]. **Spatio** [BLKK23, MHDMEA22, SPB+21, ZZG+23]. **Spatio-Spectral** [MHDMEA22]. **Spatio-Temporal**

[BLKK23, SPB+21, ZZG+23]. **SPDL** [XZC+23]. **SPEC** [WFH+24]. **Special** [Ano23, AW20, BBJR21, BCCM23, CDP21, CQ22, FAKM22, LCZ22, Lu21, QWK20, WS20]. **Specialized** [AHK+21]. **Specific** [AKG+20, WS20]. **Specification** [GZC+21, HZM+23]. **Specification-Driven** [GZC+21]. **Spectral** [JWK+23, MHDMEA22]. **Spectre** [LG22, ZLH+21]. **Speculation** [ZLH+21]. **Speculative** [AG22, CY22, GCR+23, PQG+22, PVB21, SKR+20]. **Speech** [YAG20]. **Speed** [BHK+23, DMG23, DA22, TWZ+23, VSG+23, WWL+23]. **SPICE** [vSDHA23]. **SpikeBASE** [SZ22]. **Spiking** [AGQ+23, KMVD22, LRRK+22, PKPR23, RSR22, SZ22]. **Spin** [JGD+21, JCY+23, ST23a, ST23b]. **Spin-Variable** [ST23b]. **Spins** [OTTT22]. **Spintronic** [VJWZ+21]. **Split** [GL24, QCX+23]. **Split-Radix** [GL24]. **SplitDB** [CJSY24]. **Splitting** [CBB21a]. **SQL** [WPL+23]. **SQL-Empowered** [WPL+23]. **SQLite** [WSS+20]. **Square** [Bru20, Bru23, HSE+24, LSW+23]. **Squarers** [CXW+23]. **Squaring** [MÖS22]. **SRAM** [JPHY20, ZCWC23]. **SRT** [LSW+23]. **SSD** [BJM+21, HKS20, KJC+21, KLKK23, KAA20, MKYP21, PM20]. **SSD-Assisted** [BJM+21]. **SSDs** [KOT+23, WZW+23, WJL+20]. **Stability** [KYS+22, LMDC21]. **Stable** [YZJ23, ZABHCG23]. **Stack** [JLZ21]. **Stage** [APV22, STZ+24]. **Staleness** [ACKA23]. **Stalls** [YBW21]. **Standard** [DPCL22, DLG+24]. **State** [BHK+23, HKS20, HS22, Lou20, OD23, ODK20, WRT+22, XZL+23, YCKW20]. **Stateful** [SCC21, XZL+23]. **States** [SLOM+23, XKS21]. **Static** [CFWC23, MBP21]. **Stationary** [Gha21, ZGWY22]. **Statistical** [WCL+23, WFH+24]. **Statistics** [HC24]. **STDP** [JKK+22, KMVD22]. **Stencil** [LZW23a]. **Step** [HLLC21]. **Stereo** [YCS+24, KKB+22]. **STFL** [BB20]. **STFL-DDR** [BB20]. **STfusion** [BLKK23]. **STK** [XXL+23]. **Stochastic** [AT23, CWNL22, CWC+24, FHH22, JKK+22, KKB+22, LWH20, SNT22, ZABHCG23]. **Stop** [AB22]. **Storage** [BMM+22, BL22, CLZG22, DZC+24, FLS20, GXZ+23, GLGL23, GXZ+24, HGC+22, HXGR20, JKHL22, KPD+23, LZZ+22, LV23, LJY+24, MSW+21, MCT22, PYYG21, SLS+21, SWR+23, SHZ+24, SLY+22b, WLY+23, WDZ+22, WDZ+23, WHK24, XLL+22, YTD+21, YH20, ZSC+23, ZGD23, ZCX+20, ZCZW23, ZWSF24, ZZC+23]. **Store** [CLY22, LYH+24, LDF+24, ZGD23, ZXW+24]. **Stores** [CJSY24]. **STR** [XGZ+24]. **Stragglers** [WGT+22, ZGL+21]. **Strategies** [CVOJRH22, GPRV23]. **Strategy** [GQZ21, LZW23a, SKM+23, WLW+22c, XGZ+24, ZGWY22, dSBS+22]. **Stratified** [JMW+24]. **Stratified-Causality** [JMW+24]. **Stream** [BKS22, BMM+22, CZJ21, FBH+22, HLS+23a, SZHB21, SAG22, ZMS+23]. **StreamDFP** [HLS+23a]. **Streaming** [DWL+22, GWH+23, JWS+21, NTR21, SCY21]. **Streamlining** [AB20, JWS+23, LPW20]. **Strength** [KLC20]. **Strength-Aware** [KLC20]. **Stress** [AAB+23]. **Strong** [PCA+23, XLWO23]. **Structure** [DLY21, LTFL22, LZZ+22, LYC+23]. **Structure-Aware** [LZZ+22]. **Structure-Based** [LYC+23]. **Structured** [LHY+21, SCL+24]. **Structures** [NTR21]. **STT** [CFA22, HLLC21, HWC+22b, OAK+23, SMFS21, TSM+21, WRT+22]. **STT-MRAM** [CFA22, OAK+23, SMFS21, TSM+21]. **STT-MRAM-Based** [HWC+22b]. **STT-MRAMs** [WRT+22]. **STT-RAM** [HLLC21]. **Stuck** [SKK23]. **Stuck-at-Fault** [SKK23]. **Study** [HWG+23, MKÖ+22,

TC21, WHQ+24, XPR+22]. **Subgraph** [LZF21, XYM23]. **Subgraph-Level** [XYM23]. **Subnetworks** [XST20]. **subQUBO** [ATT22]. **Subscribe** [DWL+22]. **Subterranean** [MDR+24]. **Successive** [ZC24]. **Succinct** [QCX+23]. **Suffix** [LWNC22, XNLX20]. **SUGAR** [XYM23]. **Suite** [KLP+21]. **Sunway** [LDG+22, YGW+23]. **Supercomputer** [LDG+22]. **Supersingular** [SAJA21]. **Supply** [AAB+23, KLR+20, PB23a]. **Support** [CLY22, CJYC23, DNMS20, NKL+23]. **Supporting** [GXY+23, SGL+20]. **Supports** [CKK+22]. **Surface** [VBA20]. **Surfacing** [ZML+24]. **SurgeNAS** [LLK+23]. **Surgery** [LLK+23]. **Svelto** [MCS+22]. **SVM** [LQN+21]. **SW** [TGA23]. **SWEL** [NK22]. **SWEL-COFAE** [NK22]. **Switch** [LL22, LLCJ23]. **Switches** [LCJ+24]. **Switching** [AA20, DH20]. **Symbolic** [HJYL22, SCL+24]. **Symbols** [YLL+20]. **Symmetrization** [BCV22]. **Synapses** [LY20]. **Synaptic** [SZ22]. **Synchronizing** [FBH+22]. **Synergizing** [MAM23]. **Synthesis** [BCV22, CFC+22, CAC+22, DGTVGG21, DSTD22, HZM+23, HWJ+21, HGC+22, MCS+22, PSBB21, TC21, VCLN21]. **Synthesis-Generated** [DGTVGG21]. **Syscall** [OLC+22]. **Syscall-Level** [OLC+22]. **System** [AKG+20, APK20, CZJ21, CMQ+22, CZC+21, CKRP21, DNMS20, DGZ+22, FHL+23, GKFF20, GSS+23, HLS+23b, JKHL22, KCS23, KHHK21, LZW+21, LWH+24, LFX+21, LWYJ23, MKY+24, MIPQ22, NAP+20, TOF+24, WZX+22, WTL+24, WHQ+24, XCZ+22, XZC+23, ZLC+22, ZLWJ23, ZDV+22, ZWY+23, ZGK20, dOCC23]. **System-Level** [AKG+20, NAP+20]. **System-on-Chip** [AKG+20]. **Systematic** [HLC+22, WSG+23]. **SystemC** [FV23]. **SystemC-AMS** [FV23]. **Systems** [AJ22, AhRX+20, APH+23, BHE21, BY22, BCCM23, BJMKK23, CB22, CDP21, CSW+21, CSvdBU22, CTZ+24, CRJZ21, CDF+21, DWN+22, DSJ+22, DZC+24, DPQK+23, FLF20, FV23, GGZC22, GSK+22, HLL+20, HHPB20, HHZ+23, Has23, HWC+22a, HF22, HECC+21, HLC+22, HWL+21, HZYY22, HZMC24, JWD+22, JLZ+23, JDB+23, JYM+23, JWS+23, KHP21, KHHK21, LKK+21, LCHK22, LHL+21, LLJ+23, LCH22, LL23, LLL+20, LCL+20, LYF+22, LJY+24, LZC+24, LCC+24, MNB20, MKH+21, MB21, MHK+22, OAB+23, PYS20, PS22, PKPR23, RMKO23, RMR22, RDS23, SMP22, SCFPM22, SMZ+20, SLOM+23, SM22, SGS+21, SKA+22, TRBM22, WLW+21, WWJ+23, WLY+23, WZH+23, WWS+22, XAP20, XLL+22, YWP+23, YTD+21, ZABHCG23, ZCD+22, ZGD23, ZXW+24, ZCW+21, ZCZW23, ZWSF24, DPCL22]. **Systems-on-Chip** [MKH+21]. **Systolic** [CHL+23, LRB23, YFC+22]. **Systolic-Array** [CHL+23].

Table [Das23]. **Tables** [LSW+23]. **Tag** [CFA22, HKC21]. **Tag-Data** [HKC21]. **TaihuLight** [LDG+22]. **Tailored** [SSP+24]. **Taking** [JM21]. **Tapping** [ZFL+22]. **Target** [BCBS21]. **Task** [CBB21a, DRY+22, GQZ21, HECC+21, HZMC24, KSKK23, LL22, LYGC24, LYF+22, LAPB21, MÁJG+24, RSP+20, RPMH21, RDS23, SSK22, SGS+21, WHM+22, WWS+22, WSM+24]. **Task-Level** [LL22]. **Tasks** [AOM+21, BPM23, CSvdBU22, CKP+22, FL21, GPRV23, GPQ22, GPQ23, JSTG20, JGD+21, JLZ+23, JCY+23, JZH+24, LMW+24, LSU+23, MDM22, SPDQ22, SGL+20, STQ+24, WZGT22, XLS+24]. **TC** [BCCM23, CQ22, FAKM22, Lu21, BBJR21, CDP21, WS20]. **TCAM** [TGA23]. **TCAM-Based** [TGA23]. **Technique** [CWNL22, SNT22, ZFH23]. **Techniques**

[BJM+21, DH20, GKT+22, KKH22, PLZ+23]. **Technology** [BTEC20, LY21, SRP+21, SZK+22, SKA+22, TSM+21]. **TEE** [LGX+22]. **Telepathy** [LV23]. **Temperature** [LL23, PAR+22, YBG+22]. **Temperature-Dependent** [YBG+22]. **Temperature-Induced** [PAR+22]. **Temperature-Prediction** [LL23]. **Temporal** [AGB+23, BLKK23, RBC+23, SPB+21, WSG+23, WNP+22, ZZG+23, ZGK20]. **Tenant** [WZH+23]. **Tensity** [JSTG20]. **Tensor** [FYR+24, GYH+22, HLT+23, LHK+22, LZW+23b, MLW+23, PNK+23, SLY+22b, WDQ+22]. **Tensorized** [ZLZ24]. **Term** [Mik24]. **Test** [BBL22, SCL+24, WRT+22, ZG23]. **Tester** [AAB+23]. **Testers** [DPS22]. **Testing** [GZC+21, LM21, WLW+22c, WZCM23]. **Tetris** [WZD+20]. **TetriX** [ZLZ24]. **Text** [SCL+24, XCZ+22]. **Their** [AMM21, HPGM20]. **Theoretic** [MKÖ+22, ZCF20]. **Theory** [RBSG23, WLR20]. **Thermal** [JDCL23, KKKC20, LDZ+23, SZAT22, WHC+23, WWJ+23, ZAS+22]. **Thermal-Aware** [LDZ+23, ZAS+22]. **Things** [DRA21, FHL+23, GKT+22, HC24, LHR+23, QWT+23, SYL+23]. **Thompson** [Gha21]. **Threaded** [CFC+22, MCS+22]. **Threading** [CGS+20, FNS+22]. **Throttling** [OJ23]. **Throughput** [HXGR20, LWL+21, LYH+24, LGW+22, PYYG21, UMM+20, WJL+20, XCZ+22]. **Throughput-Oriented** [PYYG21]. **Throughput/Gate** [UMM+20]. **TIE** [CXY24]. **Tierd** [YTD+21]. **Tiered** [HWC+22a]. **Ties** [BLM21]. **Ties-to-Even** [BLM21]. **Ties-to-Zero** [BLM21]. **Tight** [GJ20, KBQ+23]. **Tiled** [GXL+24]. **Tiler** [MSW+21]. **Tiling** [LZW23a]. **Time** [AhRX+20, BHE21, BY22, BCCM23, CBB21a, CBB+21b, CSvdBU22, CRJZ21, CKP+22, DSK23, DWN+22, DLG+24, FL21, FWZ+21, FHL+23, FQYS23, GPRV23, GQH21, HMMP23, Has23, HF22, HECC+21, HLS+23b, JSTG20, JGD+21, JWD+22, JYF+23, JYM+23, KAA22, KHP21, KH23, KLL21, LJY21, LL22, LZW+21, LW22, LL23, LYF+22, LRRK+22, MNB20, MSP+21, PS22, PK23, QWT+23, RDS23, SZAT22, SMFS21, SSK22, SMY22, STK23, SM22, SGL+20, WZGT22, YH20, YCL+24, ZABHCG23, ZHLR22, ZCP23, ZLW+24, ZHM20, ZCB23, ZSS20]. **Time-Borrowable** [LW22]. **Time-Coded** [LRRK+22]. **Time-Compositional** [Has23]. **Time-Memory** [ZHLR22]. **Time-Predictable** [JWD+22]. **Time-Sensitive** [FQYS23]. **Time-Slice** [FWZ+21]. **TimeCache** [OD23]. **Timely** [XWL+24]. **Times** [KJC+21, RPB+23]. **Timing** [AG22, GCR+23, PAR+22, PSBB21, TTG+23, WSG+23, ZLC+23a]. **Timing-Speculative** [AG22]. **Tiny** [ZSHB21]. **Tissue** [SLOM+23]. **TLC** [WHL+23, WHK24]. **TNU** [YHC+20]. **Toeplitz** [Das23]. **Together** [PCA+23]. **Tolerance** [DSJ+22, JLZ+23, OLD+23, WNL+23]. **Tolerant** [CXW+23, FXC+23, FTR23, GXZ+24, JZY+23, LRL22, MCT22, RMO21]. **Tolerating** [WGT+22]. **Tool** [HWZ+22]. **Tools** [TC21]. **Tower** [CLCL22]. **TOWERs** [LKMJ21]. **TPU** [SZK+22]. **Traces** [KJC+21]. **Tracking** [SZAT22, SSW+24, UYZP22]. **TrackLace** [WLZ+21]. **Tractable** [BBL22]. **Trade** [ZZL21, ZHLR22]. **Trade-Offs** [ZHLR22, ZZL21]. **Tradeoff** [NHW+24, ZDY+23]. **Trading** [AG24, HC24, XNL+23]. **Traffic** [AT23, xHzLH+24, LHK+22]. **Training** [AHC+20, CSK22, DNMS20, GYS+24, HHN+23, HLF+23, JPHY20, JWS+21, JZH+24, LWH+24, LFX+21, LY20, MSSL21, NKL+23, NKA24, RSR22, STZ+24, SPH+23, WGL+20, WWM+23, WSHJ23, XQC+22,

XYM23, ZCK20, ZLL+23, ZDV+22, dSdCF22]. **Transaction** [CYX+23, DQ23, NT23, XXL+23, ZCD+22]. **Transaction-Based** [XXL+23]. **Transactional** [DPS+20, PQG+22]. **Transactions** [Ano20a, Ano23]. **Transfer** [JMW+24, ZGG+23]. **Transform** [JLL22, LRRK+22, MKÖ+22, XGZ+24, YLHL23, GR23]. **Transformations** [WZG+23]. **Transformer** [LQC+22]. **Transformers** [HLF+23]. **Transient** [FWM+23]. **Transiently** [LJY21]. **Transition** [TDH+23]. **Translation** [CLY22, KOT+23, SZL+22]. **Transmission** [LZS+24, ZXZ+21]. **Transparent** [LHN+22]. **Transparently** [TQL+22]. **Transpose** [JPHY20]. **Transposition** [GLB21]. **Tree** [BCKS22, CJSY24, CLY22, LHY+21, WBJC22, WLD+22, ZFH23, WBJC22]. **Tree-Structured** [LHY+21]. **TREEHOUSE** [SRB23]. **Trees** [HKC+23, WCQW22]. **Tremors** [MDM22]. **Triangle** [WYZ+22]. **Triangular** [FBH+22]. **Trinomials** [Ima21]. **Trivial** [CGLS21]. **TRNG** [PCA+23]. **Trojan** [HHN+23, CPM+23, PK23, SKA+22]. **Trouble** [KBR+23]. **Trouble-Shooting** [KBR+23]. **True** [CTZ+24]. **Truss** [LYC+23]. **Trust** [LGX+22, LHR+23, NAP+20, ZFQ+23]. **Trust-Preserving** [ZFQ+23]. **Trusted** [GQJ+22, GZG+23, LGX+22, WCZ+24, XHY+22]. **Trustworthiness** [ZDY+23]. **Trustworthy** [LGX+22]. **Truth** [SSY+21]. **Truthful** [ZWWY22]. **TSE** [HLLC21]. **TTADF** [HBS20a]. **Tucker** [GYH+22, HLT+23]. **Tuner** [MLW+23]. **Tuning** [BMM+22, CXY24, KOH+23, QHT+24]. **TurboDL** [JWS+21]. **TurboGNN** [WSHJ23]. **Twice** [CVOJRH22]. **Twin** [GSS+23, ZXY+24]. **Twin-Assisted** [ZXY+24]. **Twins** [LCC+24]. **Two** [HLLC21]. **Two-Step** [HLLC21]. **Type** [CSK22, LSU+23]. **Type-Aware** [LSU+23]. **Typed** [LSU+23]. **Types** [JM21].

UAV [FZM+23, MSP+21]. **Ubiquitous** [WGM+20]. **Ultra** [ABP22, AZS+23, WDZ+23]. **Ultra-Low** [ABP22, WDZ+23]. **Ultra-Resource** [AZS+23]. **Ultrasound** [WZD+20]. **Ultratiny** [YWC+24]. **Unary** [FB20, SNT22]. **Unbiasedness** [CQI+22]. **Uncoupled** [ZQY+20]. **Under-utilization** [GSY+20]. **Underlying** [PAR+22]. **Understanding** [GSS+23, SKR+20]. **Unified** [AMJ+23, GYS+24, HSE+24, JCY+23, MC23, WDQ+22, Xu24]. **Uniformity** [WFT+21]. **Unikernel** [OLC+22]. **Unipolar** [CWNL22]. **UniSched** [GYS+24]. **Unit** [Bru20, ZTY+23, ZCK20]. **United** [FDKK21]. **Units** [Bru23]. **Universally** [LZS+24]. **Unmodified** [XLW+20]. **Unrolled** [DH20]. **Unstructured** [WSM+24]. **Unsupervised** [JKK+22, KMVD22, RAD20]. **Untrusted** [GWZ+21, NAP+20, TQL+22]. **Update** [ZDV+22, ZFH23]. **Updates** [GSC+23, SCY21]. **Usability** [CZR22]. **Use** [HXL+23, MDPM24, PC24]. **User** [CZW+24, GYS+24, PD21, SKM+23]. **User-Distribution-Aware** [CZW+24]. **User-Gateway** [PD21]. **Users** [LHXH22]. **Using** [AVK20, AA20, APK20, BLKK23, BFG+21, BLM21, BJMKK23, CWWW20, CFWC23, CHL+23, CWNL22, Das23, DYPZ22, DVA22, EGMW21, FHW+22, GZC+21, HBS+20b, HZM+23, HLT+23, Ima21, KMVD22, KLR+20, LHK+22, LMDC21, LG22, LGX+22, LZW+23b, LGW+22, LFX+21, MHS+20, MDM22, OD23, PSM22, PZY+23, PD21, RSZ23, SNA+20, SSM23, SSZ+20, STQ+24, SKM+23, TWL+22, VCLN21, WLR20, WWX+24, WZD+20, WWL+23, WHY+22, XGZ+24, XLY+22, ZDV+22, ZBT22, dSdCF22, PCBD23, RMR22].

Utilization [JSTG20, SZHB21, ZCZ+22, ZCC+23, GSY+20]. **Utilization-Tensity** [JSTG20]. **Utilizing** [CKJ+22, SMZ+20].

V [ABP22, CWS+24, FHL+22, FCZ+23, GCR+23, HMJ24, KGHRM23, SMP22, SZHB21, TDH+23, WWX+24, ZHLR22]. **V-WAFA** [FCZ+23]. **VALIANT** [SSP+24]. **Value** [BSM21, BL22, CJSY24, CLY22, EDGR+24, JKNK24, LYH+24, LDF+24, YZJ23, ZGD23, ZXW+24, ZSX+24]. **Value-Aware** [JKNK24]. **Value-Deviation-Bounded** [BSM21]. **Variable** [HZR+23, ST23b]. **Variant** [WBJC22]. **Variation** [CSW+21, FCZ+23, KKB+22, WJL+20, ZDW+23]. **Variation-Aware** [ZDW+23]. **Variational** [SZS+22]. **Variations** [PB23a]. **Varying** [VSG+23]. **Varying-Speed** [VSG+23]. **VCMalloc** [HZT+23]. **VDF** [MÖS22, ZTLW23]. **ve** [RGS22]. **VecQ** [GCL+21]. **Vector** [DNMS20, KCL+20, ZC24]. **Vector-Indistinguishability** [ZC24]. **Vectorizations** [NS22]. **Vectorized** [GCL+21]. **Vehicle** [LCHK22]. **Vehicular** [BSRP21]. **Verifiable** [LMM+22, TWaKo+23]. **Verification** [CGLS21, DSP+21, PL21, PKPR23, RMKO23]. **Version** [GXZ+23]. **versus** [BPJ+22]. **Vertex** [JXH+22, MB21]. **VF** [RCS+21]. **VF-Selection** [RCS+21]. **Via** [DSJ+22, GZG+23, HKC21, LLT+23, UYZP22, WWM+23, ZZL21, ZCR23, ZGL+21, BPM23, BLM20, BJMKK23, CCZ+22, CLY22, CRJZ21, FWZ+21, GWG+24, HLL+20, JLL+20, JMW+24, LLL+23, MZZC22, PM20, SDR+22, TWZ+23, TTG+23, WFW+20, WDQ+22, WCB23, WJL+20, XLS+24, XZL+21, XYM23, YWC+21, YLG+23, YPD+24, ZCCG23, ZLL+22b]. **Vibration** [MDM22]. **Vibration-Based** [MDM22]. **Video** [GWH+23, GYH+22, HLS+23b, LWYJ23, QWT+23, ZCJ+20]. **Videos** [YCL+24]. **View** [HLC+22]. **Violation** [ZGB+21]. **Virtual** [AY24, BYZZ20, CJYC23, FLF20, GZC+21, MSLY24, WL20, ZWC+23, LCHL21]. **Virtual/Silicon** [GZC+21]. **Virtualization** [DPCL22, JYM+23, PYYG21, PYDG22, SMP22, SZL+22, TDMP23, YLT+23, ZZG+23]. **Virtualized** [FNS+22, PLZ20]. **Virtually** [HZT+23]. **VISE** [CDF+21]. **Vision** [SMZ+20, ZHL+24]. **Visual** [LLS+22, WZX+22]. **VisualNet** [WZX+22]. **VLSI** [JYM20, TWZ+23]. **VMT** [FNS+22]. **VNF** [XZL+21, ZZM+22]. **Vol** [Ano20a]. **Volatile** [BHE21, CWWW20, LJY+24, LY20, NK22, LLY22]. **Volatile/Non** [LLY22]. **Volatile/Non-Volatile** [LLY22]. **Voltage** [HDAS21, WFW+20, WFT+21, ZSS+22]. **Voltage-Noise** [HDAS21]. **Volumetric** [YCL+24]. **VOQ** [PC24]. **Voting** [HBB+21]. **VRBC** [TWaKo+23]. **vTrust** [TQL+22]. **Vulnerabilities** [WLW+22c]. **Vulnerability** [NT23, TPWY23].

WAFA [FCZ+23]. **WAL** [HKS20]. **WAL-SSD** [HKS20]. **Walk** [GWG+24, WXL+23]. **Walks** [dSdCF22]. **Wall** [DGZ+22, MHK+22, OLD+23, LCHL21, WCYK20]. **Warp** [LHK+22]. **Wash** [HGC+22]. **Watermark** [JYH+24]. **Watermarking** [SNRB23]. **Waterwave** [SPH+23]. **Wave** [WZD+20]. **Way** [NS22, PLB22]. **Ways** [DKJP21]. **WBMatrix** [TGS+22]. **WCRT** [SGS+21]. **Weak** [HWC+22b]. **Wear** [CSW+21, NK22]. **Wear-Leveling** [CSW+21]. **Web** [CB22]. **Weight** [GCL+21, LGC+23, PE22, SSJ21, ZDV+22]. **Weight-Aware** [PE22]. **Weighted** [BYM22, CWC+24]. **Wheeler** [GR23]. **WHISTLE** [KMH+23]. **White** [TGS+22]. **White-Box** [TGS+22]. **Whole** [ZCR22]. **Whole-Life** [ZCR22]. **Width**

[JKNK24, OTTT22]. **Window** [DWL+22]. **Windows** [Fic22]. **Wireless** [Akr22, ABP22]. **Wise** [Das23, SYL+23]. **Without** [ZZZ+23]. **WooKong** [WGM+20]. **Word** [SYL+23]. **Word-Wise** [SYL+23]. **Words** [NK22]. **Workflow** [WCB23]. **Workload** [LDZ+23, MTV+21, PYYG21, ZYXD20, ZHM20]. **Workload-Aware** [MTV+21, PYYG21]. **Workloads** [CBB21a, FNS+22, GWX+23, ZSHB21, ZDZ+23, ZZC+23]. **World** [AOM+21, BGB+21, CY22]. **Worst** [FL21]. **Worst-Case** [FL21]. **Write** [CKRP21, HKS20, IKTY22, LLS+23, WFT+21, WDZ+22]. **Write-Ahead-Logging** [HKS20]. **Write-Optimized** [CKRP21]. **Writing** [WWM+23]. **Wrong** [RJ24]. **Wrong-Path-Aware** [RJ24].

x86 [WZCM23]. **XACC** [NM22]. **XeFlow** [LPW20]. **XMeter** [AMM21]. **XOR** [BCCM22]. **xoroshiro128** [HF23].

Zero [BHW+23, BPM23, BLM21, JKNK24, LHR+23, QCX+23, RGS22]. **Zero-Jitter** [BPM23]. **Zero-Knowledge** [BHW+23, QCX+23]. **Zhang** [SEM23]. **ZigZag** [MHJ+21]. **zk** [QCX+23]. **zk-SNARK** [QCX+23]. **zPerf** [WCL+23]. **Zweilous** [LCX21].

References

Aksoy:2020:NME

[AA20] L. Aksoy and M. Altun. Novel methods for efficient realization of logic functions using switching lattices. *IEEE Transactions on Computers*, 69(3):427–440, March 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Angione:2023:LCB

[AAB+23] Francesco Angione, Davide Appello, Paolo Bernardi, Claudia Bertani, Giovambattista Gallo, Stefano Littardi, Giorgio Pollaccia, Walter Ruggeri, Matteo Sonza Reorda, Vincenzo Tancorre, and Roberto Ugioli. A low-cost burn-in tester architecture to supply effective electrical stress. *IEEE Transactions on Computers*, 72(5): 1447–1459, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Addisie:2020:CAS

[AB20] A. Addisie and V. Bertacco. Collaborative accelerators for streamlining MapReduce on scale-up machines with incremental data aggregation. *IEEE Transactions on Computers*, 69(8):1233–1247, August 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Attia:2022:SLN

[AB22] Sameh Attia and Vaughn Betz. Stop and Look: a novel checkpointing and debugging flow for FPGAs. *IEEE Transactions on Computers*, 71(10): 2513–2526, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Amor:2022:RVI

[ABP22] Hela Belhadj Amor, Carolynn Bernier, and Zdeněk Přikryl. A RISC-V ISA extension for ultra-low power IoT wireless signal processing. *IEEE Transactions on Computers*, 71(4):766–778, April 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Azizimazreah:2022:PAD

[AC22] Arash Azizimazreah and Lizhong Chen. Polymorphic accelerators for deep neural networks. *IEEE Transactions on Computers*, 71(3): 534–546, March 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ardakani:2020:FEC

[ACG20] A. Ardakani, C. Condo, and W. J. Gross. Fast and efficient convolutional accelerator for edge computing. *IEEE Transactions on Computers*, 69(1): 138–152, January 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ansari:2021:ILM

[ACH21] M. S. Ansari, B. F. Cockburn, and J. Han. An improved logarithmic multiplier for energy-efficient neural computing. *IEEE Transactions on Computers*, 70(4): 614–625, April 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Abubaker:2023:MSC

[ACKA23] Nabil Abubaker, Orhun Caglayan, M. Ozan Karsavuran, and Cevdet Aykanat. Minimizing staleness and communication overhead in distributed SGD for collaborative filtering. *IEEE Transactions on Computers*, 72(10):2925–2937, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Assare:2022:PAT

[AG22] Omid Assare and Rajesh K. Gupta. Performance analysis of timing-speculative processors. *IEEE Transactions on Computers*, 71(2):407–420, February 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Alam:2024:ADL

[AG24] Irina Alam and Puneet Gupta. Achieving DRAM-like PCM by trading off capacity for latency. *IEEE Transactions on Computers*, 73(4):1180–1189, April 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ansari:2023:MMT

[AGB+23] Ali Ansari, Fatemeh Golshan, Rahil Barati, Pejman Lotfi-Kamran, and Hamid Sarbazi-

Azad. MANA: Microarchitecting a temporal instruction prefetcher. *IEEE Transactions on Computers*, 72(3): 732–743, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Aung:2023:DCS

[AGQ+23] Myat Thu Linn Aung, Daniel Gerlinghoff, Chuping Qu, Liwei Yang, Tian Huang, Rick Siow Mong Goh, Tao Luo, and Weng-Fai Wong. DeepFire2: a convolutional spiking neural network accelerator on FPGAs. *IEEE Transactions on Computers*, 72(10): 2847–2857, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ankit:2020:PPA

[AHC+20] A. Ankit, I. E. Hajj, S. R. Chalamalasetti, S. Agarwal, M. Marinella, M. Foltin, J. P. Strachan, D. Milojicic, W. Hwu, and K. Roy. PANTHER: A programmable architecture for neural network training harnessing energy-efficient ReRAM. *IEEE Transactions on Computers*, 69(8):1128–1142, August 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Asgari:2021:ESP

[AHK+21] B. Asgari, R. Hadidi, T. Krishna, H. Kim, and S. Yalamanchili. Efficiently solving partial differential equations in a partially reconfigurable specialized hardware. *IEEE Transactions on Computers*, 70(4):524–538, April 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Al-hayanni:2020:PPA

[AhRX+20] M. A. N. Al-hayanni, A. Rafiev, F. Xia, R. Shafik, A. Romanovsky, and A. Yakovlev. PARMA: Parallelization-aware run-time management for energy-efficient many-core systems. *IEEE Transactions on Computers*, 69(10):1507–1518, October 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ahmadpour:2022:BMM

[AJ22] Zabihollah Ahmadpour and Ghassem Jaberipur. Up to $8k$-bit modular Montgomery multiplication in residue number systems with fast 16-bit residue channels. *IEEE Transactions on Computers*, 71(6): 1399–1410, June 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Arda:2020:DSL

[AKG+20] S. E. Arda, A. Krishnakumar, A. A. Goksoy, N. Kumbhare, J. Mack, A. L. Sartor, A. Akoglu, R. Marculescu, and U. Y. Ogras. DS3: A system-

level domain-specific system-on-chip simulation framework. *IEEE Transactions on Computers*, 69(8):1248–1262, August 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Akram:2022:DDM

[Akr22] Vahid Khalilpour Akram. Distributed detection of minimum cuts in wireless multi-hop networks. *IEEE Transactions on Computers*, 71(4): 919–932, April 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Almeida:2023:CPB

[Alm23] Paulo Sérgio Almeida. A case for partitioned Bloom filters. *IEEE Transactions on Computers*, 72(6):1681–1691, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Aikata:2023:UCL

[AMJ+23] Aikata Aikata, Ahmet Can Mert, David Jacquemin, Amitabh Das, Donald Matthews, Santosh Ghosh, and Sujoy Sinha Roy. A unified cryptoprocessor for lattice-based signature and key-exchange. *IEEE Transactions on Computers*, 72(6):1568–1580, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Akram:2021:XFA

[AMM21] Riad Akram, Shantanu Mandal, and Abdullah Muzahid. XMeter: Finding approximable functions and predicting their accuracy. *IEEE Transactions on Computers*, 70(7):1081–1093, July 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Aghaie:2020:IC

[AMR+20] A. Aghaie, A. Moradi, S. Rasoolzadeh, A. R. Shahmirzadi, F. Schellenberg, and T. Schneider. Impeccable circuits. *IEEE Transactions on Computers*, 69(3): 361–376, March 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Anonymous:2020:IIT

[Ano20a] Anonymous. 2019 index *IEEE Transactions on Computers* vol. 68. *IEEE Transactions on Computers*, 69(1):1–22, January 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Anonymous:2020:RL

[Ano20b] Anonymous. 2019 reviewers list. *IEEE Transactions on Computers*, 69(1): 153–157, January 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Anonymous:2023:GEI

[Ano23] Anonymous. Guest editorial: *IEEE Transactions on Computers*, special issue on hardware security. *IEEE Transactions on Computers*, 72(2): 305, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Akmandor:2021:SSE

[AOM+21] A. O. Akmandor, J. Ortiz, I. Manotas, B. Ko, and N. K. Jha. SECRET: Semantically enhanced classification of real-world tasks. *IEEE Transactions on Computers*, 70(3): 440–456, March 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Alrahis:2023:BAG

[APH+23] Lilas Alrahis, Satwik Patnaik, Muhammad Abdullah Hanif, Muhammad Shafique, and Ozgur Sinanoglu. `PoisonedGNN`: Backdoor attack on graph neural networks-based hardware security systems. *IEEE Transactions on Computers*, 72(10):2822–2834, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Arnold:2020:IRL

[APK20] M. G. Arnold, V. Paliouras, and I. Kouretas. Implementing the residue logarithmic number system using interpolation and cotransformation. *IEEE Transactions on Computers*, 69(12):1719–1732, December 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ajirlou:2022:MLP

[APV22] Arash Fouman Ajirlou and Inna Partin-Vaisband. A machine learning pipeline stage for adaptive frequency adjustment. *IEEE Transactions on Computers*, 71(3): 587–598, March 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Adusumilli:2023:TCB

[AT23] Vijaya Bhaskar Adusumilli and Venkatesh TG. Traffic characterization based stochastic modelling of network-on-chip. *IEEE Transactions on Computers*, 72(4): 1215–1222, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Atobe:2022:HAM

[ATT22] Yuta Atobe, Masashi Tawada, and Nozomu Togawa. Hybrid annealing method based on subQUBO model extraction with multiple solution instances. *IEEE Transactions on Computers*, 71(10):2606–2619, October 2022. CODEN ITCOB4. ISSN 0018-

9340 (print), 1557-9956 (electronic).

Adams:2020:ARD

[AVK20] E. Adams, S. Venkatachalam, and S. Ko. Approximate restoring dividers using inexact cells and estimation from partial remainders. *IEEE Transactions on Computers*, 69(4):468–474, April 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Awad:2020:GEI

[AW20] A. Awad and R. Wang. Guest Editors' introduction to the special issue on hardware security. *IEEE Transactions on Computers*, 69(11):1556–1557, November 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Asanuma:2024:DAL

[AY24] Kota Asanuma and Hiroshi Yamada. DBMS-assisted live migration of virtual machines. *IEEE Transactions on Computers*, 73(2):380–393, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Armeniakos:2023:CDA

[AZS+23] Giorgos Armeniakos, Georgios Zervakis, Dimitrios Soudris, Mehdi B. Tahoori, and Jörg Henkel. Co-design of approximate multilayer perceptron for ultra-resource constrained printed circuits. *IEEE Transactions on Computers*, 72(9):2717–2725, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bingol:2024:GGF

[BAM+24] Zülal Bingöl, Mohammed Alser, Onur Mutlu, Ozcan Ozturk, and Can Alkan. GateKeeper-GPU: Fast and accurate pre-alignment filtering in short read mapping. *IEEE Transactions on Computers*, 73(5):1206–1218, May 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Behnam:2020:SDI

[BB20] P. Behnam and M. N. Bojnordi. STFL-DDR: Improving the energy-efficiency of memory interface. *IEEE Transactions on Computers*, 69(12):1823–1834, December 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Behnam:2022:ARD

[BB22] Payman Behnam and Mahdi Nazm Bojnordi. Adaptively reduced DRAM caching for energy-efficient high bandwidth memory. *IEEE Transactions on Computers*, 71(10):2675–2686, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Biasielli:2020:NNB

[BBC+20] M. Biasielli, C. Bolchini, L. Cassano, E. Koyuncu, and A. Miele. A neural network based fault management scheme for reliable image processing. *IEEE Transactions on Computers*, 69(5):764–776, May 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic). URL `https://ieeexplore.ieee.org/document/8955912`.

Bolchini:2022:FIE

[BBC+22] Cristiana Bolchini, Giacomo Boracchi, Luca Cassano, Antonio Miele, and Diego Stucchi. Fault impact estimation for lightweight fault detection in image filtering. *IEEE Transactions on Computers*, 71(2):282–295, February 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bombieri:2020:MIB

[BBD+20] N. Bombieri, F. Busato, A. Danese, L. Piccolboni, and G. Pravadelli. Mangrove: An inference-based dynamic invariant mining for GPU architectures. *IEEE Transactions on Computers*, 69(4):606–620, April 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Benini:2021:GEI

[BBJR21] Luca Benini, Simone Benatti, Taekwang Jang, and Abbas Rahimi. Guest editorial: *IEEE TC* special issue on smart edge computing and IoT. *IEEE Transactions on Computers*, 70(8):1146–1147, August 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Burmyakov:2022:TTE

[BBL22] Artem Burmyakov, Enrico Bini, and Chang-Gun Lee. Towards a tractable exact test for global multiprocessor fixed priority scheduling. *IEEE Transactions on Computers*, 71(11):2955–2967, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Brandalero:2021:MTA

[BCBS21] M. Brandalero, L. Carro, A. C. S. Beck, and M. Shafique. Multi-target adaptive reconfigurable acceleration for low-power IoT processing. *IEEE Transactions on Computers*, 70(1):83–98, January 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bernasconi:2022:MCX

[BCCM22] Anna Bernasconi, Stelvio Cimato, Valentina Ciriani, and Maria Chiara Molteni. Multiplicative complexity of XOR based regular functions. *IEEE Transactions on Computers*, 71(11):2927–2939, November 2022. CO-

DEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bini:2023:ITS

[BCCM23] Enrico Bini, Tam Chantem, Bruce Childers, and Daniel Mosse. IEEE TC special issue on real-time systems. *IEEE Transactions on Computers*, 72(1):1–2, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Berney:2022:BBS

[BCKS22] Kyle Berney, Henri Casanova, Ben Karsin, and Nodari Sitchinava. Beyond binary search: Parallel in-place construction of implicit search tree layouts. *IEEE Transactions on Computers*, 71(5): 1104–1116, May 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bolchini:2023:FAE

[BCMT23] Cristiana Bolchini, Luca Cassano, Antonio Miele, and Alessandro Toschi. Fast and accurate error simulation for CNNs against soft errors. *IEEE Transactions on Computers*, 72(4):984–997, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bai:2023:ACD

[BCRX23] Yang Bai, Lixing Chen, Shaolei Ren, and Jie Xu. Automated customization of on-device inference for quality-of-experience enhancement. *IEEE Transactions on Computers*, 72(5):1329–1342, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bernasconi:2022:ESD

[BCV22] Anna Bernasconi, Valentina Ciriani, and Tiziano Villa. Exploiting symmetrization and d-reducibility for approximate logic synthesis. *IEEE Transactions on Computers*, 71(1): 121–133, January 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Boldo:2020:REE

[BFC20] S. Boldo, F. Faissole, and A. Chapoutot. Round-off error and exceptional behavior analysis of explicit Runge–Kutta methods. *IEEE Transactions on Computers*, 69(12):1745–1756, December 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Blott:2021:EOC

[BFG+21] Michaela Blott, Nicholas J. Fraser, Giulio Gambardella, Lisa Halder, Johannes Kath, Zachary Neveu, Yaman Umuroglu, Alina Vasilciuc, Miriam Leeser, and Linda Doyle. Evaluation of optimized CNNs on heterogeneous accelerators using a novel benchmarking approach.

IEEE Transactions on Computers, 70(10):1654–1669, October 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Burrello:2021:DAE

[BGB+21] Alessio Burrello, Angelo Garofalo, Nazareno Bruschi, Giuseppe Tagliavini, Davide Rossi, and Francesco Conti. DORY: Automatic end-to-end deployment of real-world DNNs on low-cost IoT MCUs. *IEEE Transactions on Computers*, 70(8):1253–1268, August 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Beckers:2023:AED

[BGM+23] Arthur Beckers, Sylvain Guilley, Philippe Maurine, Colin O'Flynn, and Stjepan Picek. (Adversarial) electromagnetic disturbance in the industry. *IEEE Transactions on Computers*, 72(2):414–422, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bazzaz:2021:FPN

[BHE21] M. Bazzaz, A. Hoseinghorban, and A. Ejlali. Fast and predictable non-volatile data memory for real-time embedded systems. *IEEE Transactions on Computers*, 70(3): 359–371, March 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bae:2023:HSC

[BHK+23] Hyungjoon Bae, Yujin Hyun, Suchang Kim, Sangsoo Park, Jaeyoung Lee, Boseon Jang, Suyoung Choi, and In-Cheol Park. High-speed counter with novel LFSR state extension. *IEEE Transactions on Computers*, 72(3):893–899, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bao:2023:LEP

[BHW+23] Zijian Bao, Debiao He, Wei Wei, Cong Peng, and Xinyi Huang. LedgerMaze: an efficient privacy-preserving noninteractive zero-knowledge scheme over account-model blockchain. *IEEE Transactions on Computers*, 72(12): 3489–3502, December 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Baek:2021:SAR

[BJM+21] Sungha Baek, Youngdon Jung, David Mohaisen, Sungjin Lee, and DaeHun Nyang. SSD-assisted ransomware detection and data recovery techniques. *IEEE Transactions on Computers*, 70(10):1762–1776, October 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Butts:2023:RES

[BJMKK23] Corey Butts, Rashmi Jha, Temesguen Messay-Kebede,

and David Kapp. Resilient embedded systems designs via on the fly generation of adaptive degenerate components using machine learning. *IEEE Transactions on Computers*, 72(5):1236–1246, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bottcher:2023:TGO

[BK23] Andreas Böttcher and Martin Kumm. Towards globally optimal design of multipliers for FPGAs. *IEEE Transactions on Computers*, 72(5): 1261–1273, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bei:2022:OOS

[BKHY22] Zhendong Bei, Nam Sung Kim, Kai Hwang, and Zhibin Yu. OSC: An online self-configuring big data framework for optimization of QoS. *IEEE Transactions on Computers*, 71(4):809–823, April 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Baksi:2022:NAS

[BKS22] Anubhab Baksi, Satyam Kumar, and Santanu Sarkar. A new approach for side channel analysis on stream ciphers and related constructions. *IEEE Transactions on Computers*, 71(10):2527–2537, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Byun:2022:LFL

[BL22] Hayoung Byun and Hyesook Lim. Learned FBF: Learning-based functional Bloom filter for key value storage. *IEEE Transactions on Computers*, 71(8):1928–1938, August 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bai:2021:DCB

[BLH+21] Shilei Bai, Bin Liang, Jianjun Huang, Wei You, Jiachun Li, Yaping Li, and Wenchang Shi. Detecting the capacitance-based gamepad for protecting mobile game fairness. *IEEE Transactions on Computers*, 70(9):1374–1387, September 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Baek:2023:SFF

[BLKK23] Eunjin Baek, Eunbok Lee, Taehun Kang, and Jangwoo Kim. STfusion: Fast and flexible multi-NN execution using spatio-temporal block fusion and memory management. *IEEE Transactions on Computers*, 72(4):1194–1207, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bund:2020:OMC

[BLM20] J. Bund, C. Lenzen, and M. Medina. Optimal metastability-containing sorting via parallel prefix computation. *IEEE Transactions on Computers*, 69(2):198–211, February 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Boldo:2021:ERN

[BLM21] Sylvie Boldo, Christoph Lauter, and Jean-Michel Muller. Emulating round-to-nearest ties-to-zero augmented floating-point operations using round-to-nearest ties-to-even arithmetic. *IEEE Transactions on Computers*, 70(7):1046–1058, July 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Benoit:2022:RSM

[BLP+22] Anne Benoit, Valentin Le Fèvre, Lucas Perotin, Padma Raghavan, Yves Robert, and Hongyang Sun. Resilient scheduling of moldable parallel jobs to cope with silent errors. *IEEE Transactions on Computers*, 71(7):1696–1710, July 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bhattacharya:2020:BPA

[BMBM20] S. Bhattacharya, C. Maurice, S. Bhasin, and D. Mukhopadhyay. Branch prediction attack on blinded scalar multiplication. *IEEE Transactions on Computers*, 69(5):633–648, May 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bossuet:2020:PHI

[BMLOM20] L. Bossuet, C. Mancillas-López, and B. Ovilla-Martínez. Pipelined hardware implementation of COPA, ELmD, and COLM. *IEEE Transactions on Computers*, 69(10):1533–1543, October 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bhimani:2022:ATP

[BMM+22] Jaki Bhimani, Adnan Maruf, Ningfang Mi, Rajinikanth Pandurangan, and Vijay Balakrishnan. Auto-tuning parameters for emerging multi-stream flash-based storage drives through new I/O pattern generations. *IEEE Transactions on Computers*, 71(2): 309–322, February 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bodmann:2022:SEE

[BPJ+22] Pablo R. Bodmann, George Papadimitriou, Rubens L. Rech Junior, Dimitris Gizopoulos, and Paolo Rech. Soft error effects on Arm microprocessors: Early estimations versus chip measurements. *IEEE Transactions on Computers*, 71(10): 2358–2369, October 2022. CODEN ITCOB4. ISSN 0018-

9340 (print), 1557-9956 (electronic).

Bini:2023:ZJC

[BPM23] Enrico Bini, Paolo Pazzaglia, and Martina Maggio. Zero-jitter chains of periodic LET tasks via algebraic rings. *IEEE Transactions on Computers*, 72(11):3057–3071, November 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bag:2022:PFA

[BRPM22] Arnab Bag, Debapriya Basu Roy, Sikhar Patranabis, and Debdeep Mukhopadhyay. `FlexiPair`: An automated programmable framework for pairing cryptosystems. *IEEE Transactions on Computers*, 71(3): 506–519, March 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Benz:2024:HPE

[BRS+24] Thomas Benz, Michael Rogenmoser, Paul Scheffler, Samuel Riedel, Alessandro Ottaviano, Andreas Kurth, Torsten Hoefler, and Luca Benini. A high-performance, energy-efficient modular DMA engine architecture. *IEEE Transactions on Computers*, 73(1): 263–277, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bruguera:2020:LLF

[Bru20] J. D. Bruguera. Low latency floating-point division and square root unit. *IEEE Transactions on Computers*, 69(2):274–287, February 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bruguera:2023:RFP

[Bru23] Javier D. Bruguera. Radix-64 floating-point division and square root: Iterative and pipelined units. *IEEE Transactions on Computers*, 72(10): 2990–3001, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bilgin:2021:PVD

[BSM21] Bilgesu Arif Bilgin and Phillip Stanley-Marbell. Probabilistic value-deviation-bounded source-dependent bit-level channel adaptation for approximate communication. *IEEE Transactions on Computers*, 70(11):1949–1961, November 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Barreto:2021:SBI

[BSRP21] P. S. L. M. Barreto, M. A. Simplicio, J. E. Ricardini, and H. K. Patil. Schnorr-based implicit certification: Improving the security and efficiency of vehicular communications. *IEEE Transactions on Computers*, 70(3):393–399, March

2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bhattacharjee:2020:CCT

[BTEC20] D. Bhattacharjee, Y. Tavva, A. Easwaran, and A. Chattopadhyay. Crossbar-constrained technology mapping for ReRAM-based in-memory computing. *IEEE Transactions on Computers*, 69(5):734–748, May 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic). URL `https://ieeexplore.ieee.org/document/8951116`.

Bechtel:2022:MAD

[BY22] Michael Bechtel and Heechul Yun. Memory-aware denial-of-service attacks on shared cache in multicore real-time systems. *IEEE Transactions on Computers*, 71(9):2351–2357, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bravyi:2022:EAF

[BYM22] Sergey Bravyi, Theodore J. Yoder, and Dmitri Maslov. Efficient ancilla-free reversible and quantum circuits for the hidden weighted bit function. *IEEE Transactions on Computers*, 71(5):1170–1180, May 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Bao:2020:PPE

[BYZZ20] W. Bao, D. Yuan, B. B. Zhou, and A. Y. Zomaya. Prune and plant: Efficient placement and parallelism of virtual network functions. *IEEE Transactions on Computers*, 69(6):800–811, June 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Curzel:2022:EES

[CAC+22] Serena Curzel, Nicolas Bohm Agostini, Vito Giovanni Castellana, Marco Minutoli, Ankur Limaye, Joseph Manzano, Jeff Zhang, David Brooks, Gu-Yeon Wei, Fabrizio Ferrandi, and Antonino Tumeo. End-to-end synthesis of dynamically controlled machine learning accelerators. *IEEE Transactions on Computers*, 71(12):3074–3087, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cai:2022:IQM

[CB22] Zhicheng Cai and Rajkumar Buyya. Inverse queuing model-based feedback control for elastic container provisioning of web systems in Kubernetes. *IEEE Transactions on Computers*, 71(2):337–348, February 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Casini:2021:TSL

[CBB21a] Daniel Casini, Alessandro Biondi, and Giorgio Buttazzo. Task splitting and load balancing of dynamic real-time workloads for semi-partitioned EDF. *IEEE Transactions on Computers*, 70(12):2168–2181, December 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cesarini:2021:CRT

[CBB+21b] D. Cesarini, A. Bartolini, P. Bonfà, C. Cavazzoni, and L. Benini. COUNTDOWN: a run-time library for performance-neutral energy saving in MPI applications. *IEEE Transactions on Computers*, 70(5):682–695, May 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cui:2023:ILA

[CCC23] Yujie Cui, Hongwei Cui, and Xu Cheng. Information leakage attacks exploiting cache replacement in commercial processors. *IEEE Transactions on Computers*, 72(9):2536–2547, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Coluccio:2022:HSM

[CCG+22] Andrea Coluccio, Umberto Casale, Angela Guastamacchia, Giovanna Turvani, Marco Vacca, Massimo Ruo Roch, Maurizio Zamboni, and Mariagrazia Graziano. HybridSIMD: a modular and reconfigurable approach to beyond von Neumann computing. *IEEE Transactions on Computers*, 71(9):2287–2299, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cai:2020:ESN

[CCT+20] Y. Cai, X. Chen, L. Tian, Y. Wang, and H. Yang. Enabling secure NVM-based in-memory neural network computing by sparse fast gradient encryption. *IEEE Transactions on Computers*, 69(11):1596–1610, November 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cui:2024:SDD

[CCY+24] Laizhong Cui, Ziteng Chen, Shu Yang, Ruiyu Chen, and Zhong Ming. A secure and decentralized DLaaS platform for edge resource scheduling against adversarial attacks. *IEEE Transactions on Computers*, 73(3):631–644, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chen:2022:EDP

[CCYC22] Tseng-Yi Chen, Shao-Hung Chi, Ming-Chang Yang, and Ting-Ying Chien. Enabling

the duo-phase data management to realize longevity bit-alterable flash memory. *IEEE Transactions on Computers*, 71(8):1982–1997, August 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chen:2022:CME

[CCZ+22] Peng Chen, Hui Chen, Jun Zhou, Mengquan Li, Weichen Liu, Chunhua Xiao, Yiyuan Xie, and Nan Guan. Contention minimization in emerging SMART NoC via direct and indirect routes. *IEEE Transactions on Computers*, 71(8):1874–1888, August 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Coppolino:2021:VCI

[CDF+21] L. Coppolino, S. D'Antonio, V. Formicola, G. Mazzeo, and L. Romano. VISE: Combining Intel SGX and homomorphic encryption for cloud industrial control systems. *IEEE Transactions on Computers*, 70(5): 711–724, May 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cardoso:2021:GEI

[CDP21] João M. P. Cardoso, André DeHon, and Laura Pozzi. Guest editorial: *IEEE TC* special section on compiler optimizations for FPGA-based systems. *IEEE Transactions on Computers*, 70(12):2013–2014, December 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cantoro:2020:NSG

[CDRS20] R. Cantoro, A. Damljanovic, M. S. Reorda, and G. Squillero. A novel sequence generation approach to diagnose faults in reconfigurable scan networks. *IEEE Transactions on Computers*, 69(1):87–98, January 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chen:2023:POB

[CERMH23] Xiao Chen, Btissam Er-Rahmadi, Tiejun Ma, and Jane Hillston. ParBFT: an optimized Byzantine consensus parallelism scheme. *IEEE Transactions on Computers*, 72(12):3354–3369, December 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cheshmikhani:2022:RDR

[CFA22] Elham Cheshmikhani, Hamed Farbeh, and Hossein Asadi. 3RSeT: Read disturbance rate reduction in STT-MRAM caches by selective tag comparison. *IEEE Transactions on Computers*, 71(6): 1305–1319, June 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cheng:2022:EMA

[CFC+22] Jianyi Cheng, Shane T. Fleming, Yu Ting Chen, Jason Anderson, John Wickerson, and George A. Constantinides. Efficient memory arbitration in high-level synthesis from multi-threaded code. *IEEE Transactions on Computers*, 71(4):933–946, April 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cheng:2023:BSI

[CFWC23] Jianyi Cheng, Estibaliz Fraca, John Wickerson, and George A. Constantinides. Balancing static islands in dynamically scheduled circuits using continuous Petri nets. *IEEE Transactions on Computers*, 72(11):3300–3313, November 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cassiers:2021:HPC

[CGLS21] Gaëtan Cassiers, Benjamin Grégoire, Itamar Levi, and François-Xavier Standaert. Hardware private circuits: From trivial composition to full verification. *IEEE Transactions on Computers*, 70(10): 1677–1690, October 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Castello:2020:ATL

[CGS+20] A. Castelló, R. M. Gual, S. Seo, P. Balaji, E. S. Quintana-Ortí, and A. J. Peña. Analysis of threading libraries for high performance computing. *IEEE Transactions on Computers*, 69(9): 1279–1292, September 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Choi:2023:EFG

[CHL+23] Jinwoo Choi, Yeonan Ha, Jounghoo Lee, Sangsu Lee, Jinho Lee, Hanhwi Jang, and Youngsok Kim. Enabling fine-grained spatial multitasking on systolic-array NPUs using dataflow mirroring. *IEEE Transactions on Computers*, 72(12):3383–3398, December 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cai:2024:SCP

[CJSY24] Miao Cai, Xuzhen Jiang, Junru Shen, and Baoliu Ye. SplitDB: Closing the performance gap for LSM-tree-based key–value stores. *IEEE Transactions on Computers*, 73(1): 206–220, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Choi:2023:OOV

[CJYC23] Duheon Choi, Taeyang Jeong, Joonhyeok Yeom, and Eui-Young Chung. Operand-oriented virtual memory support for near-memory processing. *IEEE Transactions*

on Computers, 72(8):2250–2263, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Choi:2022:LEG

[CKJ+22] Jungwoo Choi, Boyeal Kim, Ji-Ye Jeon, Hyuk-Jae Lee, Euicheol Lim, and Chae Eun Rhee. A lightweight and efficient GPU for NDP utilizing data access pattern of image processing. *IEEE Transactions on Computers*, 71(1): 13–26, January 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Choi:2022:ASB

[CKK+22] P. Choi, W. Kong, J.-H. Kim, M.-K. Lee, and Dong Kyue Kim. Architectural supports for block ciphers in a RISC CPU core by instruction overloading. *IEEE Transactions on Computers*, 71(11):2844–2857, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cho:2022:OPS

[CKP+22] Youngeun Cho, Do Hyung Kim, Daechul Park, Seung Su Lee, and Chang-Gun Lee. Optimal parallelization of single/multi-segment real-time tasks for global EDF. *IEEE Transactions on Computers*, 71(5): 1077–1091, May 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Choi:2021:OOD

[CKRP21] Won Gi Choi, Doyoung Kim, Hongchan Roh, and Sanghyun Park. OurRocks: Offloading disk scan directly to GPU in write-optimized database system. *IEEE Transactions on Computers*, 70(11):1831–1844, November 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cao:2020:HOD

[CL20] W. Cao and L. Liu. Hierarchical orchestration of disaggregated memory. *IEEE Transactions on Computers*, 69(6): 844–855, June 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chung:2022:ATF

[CLCL22] Doyoung Chung, Seungkwang Lee, Dooho Choi, and Jooyoung Lee. Alternative tower field construction for quantum implementation of the AES S-box. *IEEE Transactions on Computers*, 71(10): 2553–2564, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chen:2022:KAS

[CLY22] Shuo-Han Chen, Yuhong Liang, and Ming-Chang Yang.

KVSTL: An application support to LSM-tree based key-value store via shingled translation layer data management. *IEEE Transactions on Computers*, 71(7):1598–1611, July 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chen:2022:ECA

[CLZG22] Ningyu Chen, Jiguo Li, Yichen Zhang, and Yuyan Guo. Efficient CP-ABE scheme with shared decryption in cloud storage. *IEEE Transactions on Computers*, 71(1):175–184, January 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chen:2022:LCL

[CMQ+22] Shilin Chen, Shang Ma, Zhuo Qin, Bixin Zhu, Ziqian Xiao, and Meiqing Liu. A low complexity and long period digital random sequence generator based on residue number system and permutation polynomial. *IEEE Transactions on Computers*, 71(11):3008–3017, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cicek:2022:GRC

[CNOS22] Nihat Mert Cicek, Lin Ning, Ozcan Ozturk, and Xipeng Shen. General reuse-centric CNN accelerator. *IEEE Transactions on Computers*, 71(4):880–891, April 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cogo:2021:GSB

[CPB21] V. Cogo, J. Paulo, and A. Bessani. GenoDedup: Similarity-based deduplication and delta-encoding for genome sequencing data. *IEEE Transactions on Computers*, 70(5):669–681, May 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chen:2023:OOL

[CPL+23] Ruobing Chen, Wangqi Peng, Yusen Li, Xiaoguang Liu, and Gang Wang. Orchid: an online learning based resource partitioning framework for job colocation with multiple objectives. *IEEE Transactions on Computers*, 72(12):3443–3457, December 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cruz:2023:FAE

[CPM+23] Jonathan Cruz, Christopher Posada, Naren Vikram Raj Masna, Prabuddha Chakraborty, Pravin Gaikwad, and Swarup Bhunia. A framework for automated exploration of Trojan attack space in FPGA netlists. *IEEE Transactions on Computers*, 72(10):2740–2751, October 2023. CODEN ITCOB4.

ISSN 0018-9340 (print), 1557-9956 (electronic).

Chen:2022:GEI

[CQ22] Yiran Chen and Qinru Qiu. Guest editorial: IEEE TC special issue on software, hardware and applications for neuromorphic computing. *IEEE Transactions on Computers*, 71(11):2705–2706, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chen:2022:PPL

[CQI+22] Chuangtao Chen, Weikang Qian, Mohsen Imani, Xunzhao Yin, and Cheng Zhuo. PAM: a piecewise-linearly-approximated floating-point multiplier with unbiasedness and configurability. *IEEE Transactions on Computers*, 71(10):2473–2486, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Casale:2024:SIE

[CR24] Giuliano Casale and Manuel Roveri. Scheduling inputs in early exit neural networks. *IEEE Transactions on Computers*, 73(2):451–465, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cheng:2021:ORT

[CRJZ21] Wenxue Cheng, Fengyuan Ren, Wanchun Jiang, and Tong Zhang. Optimizing the response time of memcached systems via model and quantitative analysis. *IEEE Transactions on Computers*, 70(9): 1458–1471, September 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Choi:2022:DNN

[CSK22] Seungkyu Choi, Jaekang Shin, and Lee-Sup Kim. A deep neural network training architecture with inference-aware heterogeneous data-type. *IEEE Transactions on Computers*, 71(5):1216–1229, May 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chen:2022:SRT

[CSvdBU22] Jian-Jia Chen, Junjie Shi, Georg von der Brüggen, and Niklas Ueter. Scheduling of real-time tasks with multiple critical sections in multiprocessor systems. *IEEE Transactions on Computers*, 71(1): 146–160, January 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chen:2021:CPV

[CSW+21] Xianzhang Chen, Edwin H.-M. Sha, Xinxin Wang, Chaoshu Yang, Weiwen Jiang, and Qingfeng Zhuge. Contour: a process variation aware wear-leveling mechanism for inodes of persistent memory file systems. *IEEE*

Transactions on Computers, 70(7):1034–1045, July 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chen:2024:NND

[CTZ+24] Yucong Chen, Yanshan Tian, Rui Zhou, Diego Martínez Castro, Deke Guo, and Qingguo Zhou. NDSTRNG: Nondeterministic sampling-based true random number generator on SoC FPGA systems. *IEEE Transactions on Computers*, 73(5):1313–1326, May 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cervantes-Vazquez:2022:PSS

[CVOJRH22] Daniel Cervantes-Vázquez, Eduardo Ochoa-Jiménez, and Francisco Rodríguez-Henríquez. Parallel strategies for SIDH: Toward computing SIDH twice as fast. *IEEE Transactions on Computers*, 71(6): 1249–1260, June 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chu:2024:SCC

[CWC+24] Shao-I Chu, Chi-Long Wu, Tzu-Heng Chien, Bing-Hong Liu, and Tu N. Nguyen. Stochastic circuits for computing weighted ratio with applications to multiclass Bayesian inference machine. *IEEE Transactions on Computers*, 73(2):621–630, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chu:2022:PCU

[CWNL22] Shao-I Chu, Chi-Long Wu, Tu N. Nguyen, and Bing-Hong Liu. Polynomial computation using unipolar stochastic logic and correlation technique. *IEEE Transactions on Computers*, 71(6):1358–1373, June 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chen:2024:RVC

[CWS+24] Yuxing Chen, Xinrui Wang, Suwen Song, Lang Feng, and Zhongfeng Wang. RISC-V custom instructions of elementary functions for IoT endpoint devices. *IEEE Transactions on Computers*, 73(2): 523–535, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cai:2022:ORM

[CWT+22] Xuyi Cai, Ying Wang, Kaijie Tu, Chengsi Gao, and Lei Zhang. Olympus: Reaching memory-optimality on DNN processors. *IEEE Transactions on Computers*, 71(8): 1939–1951, August 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chen:2020:NJL

[CWWW20] C. Chen, Q. Wei, W. Wong, and C. Wang. NV-journaling: Locality-aware journaling using byte-addressable non-volatile memory. *IEEE Transactions on Computers*, 69(2): 288–299, February 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chen:2023:PED

[CWY+23] Shuzhen Chen, Yangyang Wang, Dongxiao Yu, Ju Ren, Congan Xu, and Yanwei Zheng. Privacy-enhanced decentralized federated learning at dynamic edge. *IEEE Transactions on Computers*, 72(8): 2165–2180, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cheng:2023:PID

[CXL+23] Ke Cheng, Ning Xi, Ximeng Liu, Xinghui Zhu, Haichang Gao, Zhiwei Zhang, and Yulong Shen. Private inference for deep neural networks: a secure, adaptive, and efficient realization. *IEEE Transactions on Computers*, 72(12): 3519–3531, December 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chen:2023:EAS

[CXW+23] Ke Chen, Chenyu Xu, Haroon Waris, Weiqiang Liu, Paolo Montuschi, and Fabrizio Lombardi. Exact and approximate squarers for error-tolerant applications. *IEEE Transactions on Computers*, 72(7): 2120–2126, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chen:2024:TFE

[CXY24] Chao Chen, Jinhan Xin, and Zhibin Yu. TIE: Fast experiment-driven ML-based configuration tuning for in-memory data analytics. *IEEE Transactions on Computers*, 73(5):1233–1247, May 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chowdhuryy:2022:LST

[CY22] Md Hafizul Islam Chowdhuryy and Fan Yao. Leaking secrets through modern branch predictors in the speculative world. *IEEE Transactions on Computers*, 71(9):2059–2072, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chatelain:2023:PAP

[CYKG23] Yohan Chatelain, Nigel Yong Sao Young, Gregory Kiar, and Tristan Glatard. PyTracer: Automatically profiling numerical instabilities in Python. *IEEE Transactions on Computers*, 72(6):1792–1803, June 2023. CODEN ITCOB4. ISSN

0018-9340 (print), 1557-9956 (electronic).

Chen:2023:ASS

[CYX+23] Weilin Chen, Wei Yang, Lide Xue, Bingren Chen, Youwen Zhu, and Liusheng Huang. Avalon: a scalable and secure distributed transaction ledger based on proof-of-market. *IEEE Transactions on Computers*, 72(12):3576–3589, December 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cao:2022:NPE

[CZB+22] Weidong Cao, Yilong Zhao, Adith Boloor, Yinhe Han, Xuan Zhang, and Li Jiang. Neural-PIM: Efficient processing-in-memory with neural approximation of peripherals. *IEEE Transactions on Computers*, 71(9):2142–2155, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cheng:2021:GDR

[CZC+21] Kun Cheng, Yuan Zhou, Bihuan Chen, Rui Wang, Yuebin Bai, and Yang Liu. Guardauto: A decentralized runtime protection system for autonomous driving. *IEEE Transactions on Computers*, 70(10):1569–1581, October 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chen:2021:PPA

[CZJ21] Hanhua Chen, Fan Zhang, and Hai Jin. PStream: A popularity-aware differentiated distributed stream processing system. *IEEE Transactions on Computers*, 70(10):1582–1597, October 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Chen:2022:DBD

[CZR22] Xiangru Chen, Jiaqi Zhang, and Sandip Ray. Dandelion: Boosting DNN usability under dataset scarcity. *IEEE Transactions on Computers*, 71(10):2487–2498, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Cui:2024:UDA

[CZW+24] Yangguang Cui, Zhixing Zhang, Nuo Wang, Liying Li, Chunwei Chang, and Tongquan Wei. User-distribution-aware federated learning for efficient communication and fast inference. *IEEE Transactions on Computers*, 73(4):1004–1018, April 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Deepika:2022:ADC

[DA22] S. Deepika and V. Arunachalam. Analysis & design of convolution operator for high speed and high accuracy

convolutional neural network-based inference engines. *IEEE Transactions on Computers*, 71(2):390–396, February 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Das:2023:BWC

[Das23] Arindam Das. Block-wise computation of cyclic redundancy code using factored Toeplitz matricesin lieu of look-up table. *IEEE Transactions on Computers*, 72(4): 1110–1121, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

deVeras:2021:CBQ

[ddAPdS21] Tiago M. L. de Veras, Ismael C. S. de Araujo, Daniel K. Park, and Adenilton J. da Silva. Circuit-based quantum random access memory for classical data with continuous amplitudes. *IEEE Transactions on Computers*, 70(12): 2125–2135, December 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Dar:2022:NCB

[DDK22] Gilad Dar, Giorgio Di Natale, and Osnat Keren. Nonlinear code-based low-overhead fine-grained control flow checking. *IEEE Transactions on Computers*, 71(3):658–669, March 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

DeSanto:2022:DLH

[DGG+22] Aniello De Santo, Antonio Galli, Michela Gravina, Vincenzo Moscato, and Giancarlo Sperlì. Deep learning for HDD health assessment: an application based on LSTM. *IEEE Transactions on Computers*, 71(1):69–80, January 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Davila-Guzman:2021:AMM

[DGTVGG21] Maria Angélica Dávila-Guzmán, Rubén Gran Tejero, María Villarroya-Gaudó, and Darío Suárez Gracia. Analytical model for memory-centric high level synthesis-generated applications. *IEEE Transactions on Computers*, 70(12):2056–2069, December 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Du:2022:BIW

[DGZ+22] Zidong Du, Qi Guo, Yongwei Zhao, Xi Zeng, Ling Li, Limin Cheng, Zhiwei Xu, Ninghui Sun, and Yunji Chen. Breaking the interaction wall: a DLPU-centric deep learning computing system. *IEEE Transactions on Computers*, 71(1):209–222, January 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Dhanuskodi:2020:TRS

[DH20] S. N. Dhanuskodi and D. Holcomb. Techniques to reduce switching and leakage energy in unrolled block ciphers. *IEEE Transactions on Computers*, 69(10):1414–1423, October 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

deHaro:2021:OFH

[dHBF+21] Juan Miguel de Haro, Jaume Bosch, Antonio Filgueras, Miquel Vidal, Daniel Jiménez-González, Carlos Álvarez, Xavier Martorell, Eduard Ayguadé, and Jesús Labarta. OmpSs@FPGA framework for high performance FPGA computing. *IEEE Transactions on Computers*, 70(12):2029–2042, December 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Das:2021:OCN

[DKJP21] Abhijit Das, Abhishek Kumar, John Jose, and Maurizio Palesi. Opportunistic caching in NoC: Exploring ways to reduce miss penalty. *IEEE Transactions on Computers*, 70(6):892–905, June 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ding:2024:BDS

[DLG+24] Lin Ding, Zhengting Li, Ziyu Guan, Xinhai Wang, and Zheng Wu. Breaking the DECT standard cipher with lower time cost. *IEEE Transactions on Computers*, 73(5):1290–1299, May 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Deng:2021:PEE

[DLY21] C. Deng, S. Liao, and B. Yuan. PermCNN: Energy-efficient convolutional neural network hardware architecture with permuted diagonal structure. *IEEE Transactions on Computers*, 70(2):163–173, February 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Das:2023:HEE

[DMD+23] Arghadip Das, Chandrachur Majumder, Debaprasad De, Arnab Raha, and Mrinal Kanti Naskar. HIPEDAP: Energy-efficient hardware accelerators for hidden periodicity detection. *IEEE Transactions on Computers*, 72(10):2781–2794, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Dang:2023:HSH

[DMG23] Viet Ba Dang, Kamyar Mohajerani, and Kris Gaj. High-speed hardware architectures and FPGA benchmarking of `CRYSTALS-Kyber`, `NTRU`, and `Saber`. *IEEE Transactions on Computers*, 72(2):306–

320, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Deng:2022:ECA

[DMX+22] Shuwen Deng, Nikolay Matyunin, Wenjie Xiong, Stefan Katzenbeisser, and Jakub Szefer. Evaluation of cache attacks on Arm processors and secure caches. *IEEE Transactions on Computers*, 71(9): 2248–2262, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Dass:2020:DTS

[DNMS20] J. Dass, Y. Narawane, R. N. Mahapatra, and V. Sarin. Distributed training of support vector machine on a multiple-FPGA system. *IEEE Transactions on Computers*, 69(7): 1015–1026, July 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

deOliveira:2023:OSN

[dOCC23] Daniel Bristot de Oliveira, Daniel Casini, and Tommaso Cucinotta. Operating system noise in the Linux kernel. *IEEE Transactions on Computers*, 72(1):196–207, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Dai:2022:RBV

[DPCL22] Guangli Dai, Pavan Kumar Paluri, Albert Mo Kim Cheng, and Bozheng Liu. Regularity-based virtualization under the ARINC 653 Standard for Embedded Systems. *IEEE Transactions on Computers*, 71(10): 2592–2605, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Denkinger:2023:ACI

[DPQK+23] Benoît Walter Denkinger, Miguel Peón-Quirós, Mario Konijnenburg, David Atienza, and Francky Catthoor. Acceleration of control intensive applications on coarse-grained reconfigurable arrays for embedded systems. *IEEE Transactions on Computers*, 72(9): 2548–2560, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

DiSanzo:2020:AMB

[DPS+20] P. Di Sanzo, A. Pellegrini, M. Sannicandro, B. Ciciani, and F. Quaglia. Adaptive model-based scheduling in software transactional memory. *IEEE Transactions on Computers*, 69(5):621–632, May 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Dalai:2022:SCC

[DPS22] Deepak Kumar Dalai, Santu Pal, and Santanu Sarkar.

Some conditional cube testers for Grain-128a of reduced rounds. *IEEE Transactions on Computers*, 71(6):1374–1385, June 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

DiSanzo:2023:ETD

[DQ23] Pierangelo Di Sanzo and Francesco Quaglia. On the effects of transaction data access patterns on performance in lock-based concurrency control. *IEEE Transactions on Computers*, 72(6):1718–1732, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Disabato:2021:DDC

[DRA21] Simone Disabato, Manuel Roveri, and Cesare Alippi. Distributed deep convolutional neural networks for the Internet-of-Things. *IEEE Transactions on Computers*, 70(8):1239–1252, August 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Dhar:2022:DDP

[DRY+22] Ashutosh Dhar, Edward Richter, Mang Yu, Wei Zuo, Xiaohao Wang, Nam Sung Kim, and Deming Chen. DML: Dynamic partial reconfiguration with scalable task scheduling for multi-applications on FPGAs. *IEEE Transactions on Computers*, 71(10):2577–2591, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

dosSantos:2022:RPD

[dSBS+22] Fernando F. dos Santos, Marcelo Brandalero, Michael B. Sullivan, Pedro M. Basso, Michael Hübner, Luigi Carro, and Paolo Rech. Reduced precision DWC: An efficient hardening strategy for mixed-precision architectures. *IEEE Transactions on Computers*, 71(3):573–586, March 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

deSouza:2022:CAN

[dSdCF22] Luciano S. de Souza, Jonathan H. A. de Carvalho, and Tiago A. E. Ferreira. Classical artificial neural network training using quantum walks as a search procedure. *IEEE Transactions on Computers*, 71(2):378–389, February 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Deng:2022:SEE

[DSJ+22] Bobin Deng, Sriseshan Srikanth, Anirudh Jain, Thomas M. Conte, Erik DeBenedictis, and Jeanine Cook. Scalable energy-efficient microarchitectures with computational error tolerance via redundant residue number systems. *IEEE Transactions on Computers*, 71(3):613–627, March 2022.

CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Das:2023:AAL

[DSK23] Palash Das, Shashank Sharma, and Hemangee K. Kapoor. ALAMNI: Adaptive LookAside memory based near-memory inference engine for eliminating multiplications in real-time. *IEEE Transactions on Computers*, 72(3): 693–706, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Dazzi:2021:EPE

[DSP+21] Martino Dazzi, Abu Sebastian, Thomas Parnell, Pier Andrea Francese, Luca Benini, and Evangelos Eleftheriou. Efficient pipelined execution of CNNs based on in-memory computing and graph homomorphism verification. *IEEE Transactions on Computers*, 70(6):922–935, June 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Dilek:2022:HLS

[DSTD22] Selma Dilek, Rawan Smri, Suleyman Tosun, and Deniz Dal. A high-level synthesis methodology for energy and reliability-oriented designs. *IEEE Transactions on Computers*, 71(1):161–174, January 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Das:2020:NCS

[DT20] A. Das and N. A. Touba. A new class of single burst error correcting codes with parallel decoding. *IEEE Transactions on Computers*, 69(2): 253–259, February 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Dimitrov:2022:FGR

[DVA22] Vassil Dimitrov, Luigi Vigneri, and Vidal Attias. Fast generation of RSA keys using smooth integers. *IEEE Transactions on Computers*, 71(7): 1575–1585, July 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

DAnvers:2023:RHO

[DVV23] Jan-Pieter D'Anvers, Michiel Van Beirendonck, and Ingrid Verbauwhede. Revisiting higher-order masked comparison for lattice-based cryptography: Algorithms and bit-sliced implementations. *IEEE Transactions on Computers*, 72(2):321–332, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Deng:2022:SKS

[DWL+22] Ze Deng, Yue Wang, Tao Liu, Schahram Dustdar, Rajiv Ranjan, Albert Zomaya,

Yizhi Liu, and Lizhe Wang. Spatial-keyword skyline publish/subscribe query processing over distributed sliding window streaming data. *IEEE Transactions on Computers*, 71(10):2659–2674, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Demirbaga:2022:AAR

[DWN+22] Umit Demirbaga, Zhenyu Wen, Ayman Noor, Karan Mitra, Khaled Alwasel, Saurabh Garg, Albert Y. Zomaya, and Rajiv Ranjan. AutoDiagn: An automated real-time diagnosis framework for big data systems. *IEEE Transactions on Computers*, 71(5):1035–1048, May 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Du:2020:ACD

[DWYX20] M. Du, Y. Wang, K. Ye, and C. Xu. Algorithmics of cost-driven computation offloading in the edge-cloud environment. *IEEE Transactions on Computers*, 69(10): 1519–1532, October 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Dai:2020:GPC

[DYJ20] X. Dai, H. Yin, and N. K. Jha. Grow and prune compact, fast, and accurate LSTMs. *IEEE Transactions on Computers*, 69(3):441–452, March 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Dey:2022:PPI

[DYPZ22] Moumita Dey, Baki Berkay Yilmaz, Milos Prvulovic, and Alenka Zaji . PRIMER: Profiling interrupts using electromagnetic side-channel for embedded devices. *IEEE Transactions on Computers*, 71(8): 1824–1838, August 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Deng:2024:DLD

[DZC+24] Cai Deng, Xiangyu Zou, Qi Chen, Bo Tang, and Wen Xia. The design of a lossless deduplication scheme to eliminate fine-grained redundancy for JPEG image storage systems. *IEEE Transactions on Computers*, 73(5):1385–1399, May 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

El-Araby:2023:TCS

[EAMJ+23] Esam El-Araby, Naveed Mahmud, Mingyoung Joshua Jeng, Andrew MacGillivray, Manu Chaudhary, Md. Alvir Islam Nobel, SM Ishraq Ul Islam, David Levy, Dylan Kneidel, Madeline R. Watson, Jack G. Bauer, and Andrew E. Riachi. Towards complete and scalable emulation of quantum algorithms on high-performance reconfigurable

computers. *IEEE Transactions on Computers*, 72(8): 2350–2364, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

ElKhatib:2022:HPF

[EAMK22] Rami El Khatib, Reza Azarderakhsh, and Mehran Mozaffari-Kermani. High-performance FPGA accelerator for SIKE. *IEEE Transactions on Computers*, 71(6):1237–1248, June 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Esmaili-Dokht:2024:KVS

[EDGR+24] Pouya Esmaili-Dokht, Miquel Guiot, Petar Radojkovi , Xavier Martorell, Eduard Ayguadé, Jesus Labarta, Jason Adlard, Paolo Amato, and Marco Sforzin. $\mathcal{O}(n)$ key value sort with active compute memory. *IEEE Transactions on Computers*, 73(5): 1341–1356, May 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Elish:2022:LED

[EEA22] Karim O. Elish, Mahmoud O. Elish, and Hussain M. J. Almohri. Lightweight, effective detection and characterization of mobile malware families. *IEEE Transactions on Computers*, 71(11):2982–2995, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Egger:2021:CRA

[EGMW21] Daniel J. Egger, Ricardo García Gutiérrez, Jordi Cahué Mestre, and Stefan Woerner. Credit risk analysis using quantum computers. *IEEE Transactions on Computers*, 70(12): 2136–2145, December 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

El-Razouk:2021:NDS

[ERKP21] Hayssam El-Razouk, Kirthi Kotha, and Mahidhar Puligunta. Novel GF(2^m) digit-serial PISO multipliers for the self-dual Gaussian normal bases. *IEEE Transactions on Computers*, 70(10): 1732–1746, October 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ebrahimi:2020:LIR

[ESN20] M. Ebrahimi, R. Sadeghi, and Z. Navabi. LUT input reordering to reduce aging impact on FPGA LUTs. *IEEE Transactions on Computers*, 69(10): 1500–1506, October 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Eckert:2023:EMM

[ESW+23] Charles Eckert, Arun Subramaniyan, Xiaowei Wang,

Charles Augustine, Ravishankar Iyer, and Reetuparna Das. Eidetic: an in-memory matrix multiplication accelerator for neural networks. *IEEE Transactions on Computers*, 72(6):1539–1553, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Fairouz:2021:HAH

[FAFK21] Abbas A. Fairouz, Monther Abusultan, Viacheslav V. Fedorov, and Sunil P. Khatri. Hardware acceleration of hash operations in modern microprocessors. *IEEE Transactions on Computers*, 70(9): 1412–1426, September 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ferdman:2022:GEI

[FAKM22] Michael Ferdman, Jorge Albericio, Tushar Krishna, and Peter Milder. Guest editorial: IEEE TC special issue: Hardware acceleration of machine learning. *IEEE Transactions on Computers*, 71(12):3072–3073, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Faraji:2020:HBU

[FB20] S. R. Faraji and K. Bazargan. Hybrid binary–unary hardware accelerator. *IEEE Transactions on Computers*, 69(9): 1308–1319, September 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Francq:2022:NTS

[FBH+22] Julien Francq, Loïc Besson, Paul Huynh, Philippe Guillot, Gilles Millerioux, and Marine Minier. Non-triangular self-synchronizing stream ciphers. *IEEE Transactions on Computers*, 71(1):134–145, January 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Forsberg:2021:HPE

[FBM21] B. Forsberg, L. Benini, and A. Marongiu. HePREM: A predictable execution model for GPU-based heterogeneous SoCs. *IEEE Transactions on Computers*, 70(1):17–29, January 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Feng:2023:VWE

[FCZ+23] Xiaoliu Feng, Xianzhang Chen, Qingfeng Zhuge, Duo Liu, Edwin H.-M. Sha, and Chun Jason Xue. V-WAFA: an endurance variation aware fine-grained allocator for persistent memory. *IEEE Transactions on Computers*, 72(4): 998–1010, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Farbeh:2021:EUC

[FDKK21] H. Farbeh, L. Delshadtehrani, H. Kim, and S. Kim. ECC-United cache: Maximizing efficiency of error detection/correction codes in associative cache memories. *IEEE Transactions on Computers*, 70(4): 640–654, April 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Feng:2022:MFH

[FHH22] Xincheng Feng, Ke Hu, and Kaining Han. MM-FSM: a high-efficiency general nonlinear function generator for stochastic computation. *IEEE Transactions on Computers*, 71(9):1998–2009, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Feng:2022:RRV

[FHL+22] Lang Feng, Jiayi Huang, Luyi Li, Haochen Zhang, and Zhongfeng Wang. RvDfi: a RISC-V architecture with security enforcement by high performance complete dataflow integrity. *IEEE Transactions on Computers*, 71(10): 2499–2512, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Feng:2023:EEP

[FHL+23] Qi Feng, Debiao He, Min Luo, Xinyi Huang, and Kim-Kwang Raymond Choo. EPRICE: an efficient and privacy-preserving real-time incentive system for crowdsensing in Industrial Internet of Things. *IEEE Transactions on Computers*, 72(9): 2482–2495, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Fu:2022:JHD

[FHW+22] Rongliang Fu, Junying Huang, Haibin Wu, Xiaochun Ye, Dongrui Fan, and Tsung-Yi Ho. JBNN: a hardware design for binarized neural networks using single-flux-quantum circuits. *IEEE Transactions on Computers*, 71(12):3203–3214, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ficco:2022:MAC

[Fic22] Massimo Ficco. Malware analysis by combining multiple detectors and observation windows. *IEEE Transactions on Computers*, 71(6):1276–1290, June 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Faldella:2021:PWC

[FL21] Eugenio Faldella and Daniela Loreti. Precise worst-case blocking time of tasks under priority inheritance protocol. *IEEE Transactions on Computers*, 70(11):1901–

1913, November 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Fraccaroli:2020:AGA

[FLF20] E. Fraccaroli, M. Lora, and F. Fummi. Automatic generation of analog/mixed signal virtual platforms for smart systems. *IEEE Transactions on Computers*, 69(9):1263–1278, September 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Fan:2020:ALC

[FLS20] Q. Fan, D. J. Lilja, and S. S. Sapatnekar. Adaptive-length coding of image data for low-cost approximate storage. *IEEE Transactions on Computers*, 69(2):239–252, February 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Freitas:2021:LEC

[FMM+21] David C. C. Freitas, David F. M. Mota, César Marcon, Jarbas A. N. Silveira, and João C. M. Mota. LPC: An error correction code for mitigating faults in 3D memories. *IEEE Transactions on Computers*, 70(11):2001–2012, November 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Feliu:2022:VVM

[FNS+22] Josué Feliu, Ajeya Naithani, Julio Sahuquillo, Salvador Petit, Moinuddin Qureshi, and Lieven Eeckhout. VMT: Virtualized multi-threading for accelerating graph workloads on commodity processors. *IEEE Transactions on Computers*, 71(6):1386–1398, June 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Fu:2023:FOS

[FQYS23] Wenwen Fu, Wei Quan, Jinli Yan, and Zhigang Sun. Fenglin-I: An open-source time-sensitive networking chip enabling agile customization. *IEEE Transactions on Computers*, 72(1):140–153, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ferdaus:2023:AMH

[FTR23] Farah Ferdaus, B. M. S. Bahar Talukder, and Md Tauhidur Rahman. Approximate MRAM: High-performance and power-efficient computing with MRAM chips for error-tolerant applications. *IEEE Transactions on Computers*, 72(3):668–681, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Fraccaroli:2023:MCP

[FV23] Enrico Fraccaroli and Sara Vinco. Modeling cyber-

physical production systems with SystemC-AMS. *IEEE Transactions on Computers*, 72(7):2039–2051, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Frankel:2023:SRB

[FW23] Binyamin Frankel and Shmuel Wimer. A self-refreshable bitcell for single-cycle refreshing of embedded memories. *IEEE Transactions on Computers*, 72(2):513–519, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Fadiheh:2023:EAD

[FWM+23] Mohammad Rahmani Fadiheh, Alex Wezel, Johannes Müller, Jörg Bormann, Sayak Ray, Jason M. Fung, Subhasish Mitra, Dominik Stoffel, and Wolfgang Kunz. An exhaustive approach to detecting transient execution side channels in RTL designs of processors. *IEEE Transactions on Computers*, 72(1): 222–235, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Fyrbiak:2020:GSA

[FWR+20] M. Fyrbiak, S. Wallat, S. Reinhard, N. Bissantz, and C. Paar. Graph similarity and its applications to hardware security. *IEEE Transactions on Computers*, 69(4):505–519, April 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Fan:2021:APA

[FWZ+21] Hao Fan, Song Wu, Xinyu Zhao, Zhenjiang Xie, Sheng Di, Jiang Xiao, Chen Yu, and Hai Jin. Accelerating parallel applications in cloud platforms via adaptive time-slice control. *IEEE Transactions on Computers*, 70(7): 992–1005, July 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Fan:2023:DPC

[FXC+23] Weibei Fan, Fu Xiao, Hui Cai, Xiaobai Chen, and Shui Yu. Disjoint paths construction and fault-tolerant routing in BCube of data center networks. *IEEE Transactions on Computers*, 72(9): 2467–2481, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Feng:2024:TRN

[FYR+24] Jun Feng, Laurence T. Yang, Bocheng Ren, Deqing Zou, Mianxiong Dong, and Shunli Zhang. Tensor recurrent neural network with differential privacy. *IEEE Transactions on Computers*, 73(3): 683–693, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Feng:2022:BBB

[FZG+22] Lei Feng, Yiqi Zhao, Shaoyong Guo, Xuesong Qiu, Wenjing Li, and Peng Yu. BAFL: A blockchain-based asynchronous federated learning framework. *IEEE Transactions on Computers*, 71(5): 1092–1103, May 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Fu:2023:EED

[FZM+23] Luwei Fu, Zhiwei Zhao, Geyong Min, Wang Miao, Liang Zhao, and Wenjie Huang. Energy-efficient 3-D data collection for multi-UAV assisted mobile crowdsensing. *IEEE Transactions on Computers*, 72(7):2025–2038, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Genssler:2022:BIC

[GA22] Paul R. Genssler and Hussam Amrouch. Brain-inspired computing for circuit reliability characterization. *IEEE Transactions on Computers*, 71(12): 3336–3348, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Gong:2021:VML

[GCL+21] C. Gong, Y. Chen, Y. Lu, T. Li, C. Hao, and D. Chen. VecQ: Minimal loss DNN model compression with vectorized weight quantization. *IEEE Transactions on Computers*, 70(5):696–710, May 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Gruin:2023:MTP

[GCR+23] Alban Gruin, Thomas Carle, Christine Rochange, Hugues Cassé, and Pascal Sainrat. MINOTAuR: A timing predictable RISC-V core featuring speculative execution. *IEEE Transactions on Computers*, 72(1):183–195, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Gao:2022:EEL

[GGZC22] Yuanning Gao, Xiaofeng Gao, Ruisi Zhang, and Guihai Chen. An end-to-end learning-based metadata management approach for distributed file systems. *IEEE Transactions on Computers*, 71(5): 1021–1034, May 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ghatak:2021:CDB

[Gha21] Gourab Ghatak. A change-detection-based Thompson sampling framework for non-stationary bandits. *IEEE Transactions on Computers*, 70(10):1670–1676, October 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Graillat:2020:TII

[GJ20] S. Graillat and F. Jézéquel. Tight interval inclusions with compensated algorithms. *IEEE Transactions on Computers*, 69(12):1774–1783, December 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Giardino:2020:PPA

[GKFF20] M. Giardino, E. Klawitter, B. Ferri, and A. Ferri. A power- and performance-aware software framework for control system applications. *IEEE Transactions on Computers*, 69(10):1544–1555, October 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Gao:2022:EOD

[GKT+22] Yansong Gao, Minki Kim, Chandra Thapa, Alsharif Abuadbba, Zhi Zhang, Seyit Camtepe, Hyoungshick Kim, and Surya Nepal. Evaluation and optimization of distributed machine learning techniques for Internet of Things. *IEEE Transactions on Computers*, 71(10):2538–2552, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Guo:2024:SRB

[GL24] Wenbo Guo and Shuguo Li. Split-radix based compact hardware architecture for CRYSTALS-Kyber. *IEEE Transactions on Computers*, 73(1):97–108, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Godard:2021:ECP

[GLB21] Paul Godard, Vincent Loechner, and Cédric Bastoul. Efficient out-of-core and out-of-place rectangular matrix transposition and rotation. *IEEE Transactions on Computers*, 70(11):1942–1948, November 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Guo:2023:RBA

[GLGL23] Yuyan Guo, Zhenhua Lu, Hui Ge, and Jiguo Li. Revocable blockchain-aided attribute-based encryption with escrow-free in cloud storage. *IEEE Transactions on Computers*, 72(7):1901–1912, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Galimberti:2022:ESF

[GMZ22] Andrea Galimberti, Gabriele Montanaro, and Davide Zoni. Efficient and scalable FPGA design of GF(2^m) inversion for post-quantum cryptosystems. *IEEE Transactions on Computers*, 71(12):3295–3307, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Gonzalez-Navarro:2020:NRN

[GNH20] S. González-Navarro and J. Hormigo. New results on non-normalized floating-point formats. *IEEE Transactions on Computers*, 69(12):1733–1744, December 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Godunov:2020:ACC

[God20] A. Godunov. Algorithms for calculating correctly rounded exponential function in double-precision arithmetic. *IEEE Transactions on Computers*, 69(9):1388–1400, September 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Giles:2020:KFD

[GPH20] C. E. Giles, C. L. Peterson, and M. A. Heinrich. KnightSim: A fast discrete event-driven simulation methodology for computer architectural simulation. *IEEE Transactions on Computers*, 69(1): 65–71, January 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Guan:2022:FSA

[GPQ22] Fei Guan, Long Peng, and Jiaqing Qiao. A fluid scheduling algorithm for DAG tasks with constrained or arbitrary deadlines. *IEEE Transactions on Computers*, 71(8): 1860–1873, August 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Guan:2023:NFS

[GPQ23] Fei Guan, Long Peng, and Jiaqing Qiao. A new federated scheduling algorithm for arbitrary-deadline DAG tasks. *IEEE Transactions on Computers*, 72(8):2264–2277, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Gao:2023:DSS

[GPRV23] Yiqin Gao, Guillaume Pallez, Yves Robert, and Frédéric Vivien. Dynamic scheduling strategies for firm semi-periodic real-time tasks. *IEEE Transactions on Computers*, 72(1):55–68, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Guan:2021:DFR

[GQH21] F. Guan, J. Qiao, and Y. Han. DAG-Fluid: A real-time scheduling algorithm for DAGs. *IEEE Transactions on Computers*, 70(3): 471–482, March 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Guo:2022:ETD

[GQJ+22] Shaoyong Guo, Yuanyuan Qi, Yi Jin, Wenjing Li, Xuesong

Qiu, and Luoming Meng. Endogenous trusted DRL-Based service function chain orchestration for IoT. *IEEE Transactions on Computers*, 71(2): 397–406, February 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Gai:2021:EAH

[GQZ21] K. Gai, X. Qin, and L. Zhu. An energy-aware high performance task allocation strategy in heterogeneous fog computing environments. *IEEE Transactions on Computers*, 70(4):626–639, April 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ghosh:2023:MFH

[GR23] Surajeet Ghosh and Sanchita Saha Ray. $O(N)$ memory-free hardware architecture for Burrows–Wheeler Transform. *IEEE Transactions on Computers*, 72(7): 2080–2093, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Geyer:2023:NCF

[GSB23] Fabien Geyer, Alexander Scheffler, and Steffen Bondorf. Network calculus with flow prolongation: a feedforward FIFO analysis enabled by ML. *IEEE Transactions on Computers*, 72(1):97–110, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Gong:2023:ORC

[GSC+23] Guowen Gong, Zhirong Shen, Liang Chen, Suzhen Wu, Xiaolu Li, Patrick P. C. Lee, Zhiguo Wan, and Jiwu Shu. Optimal rack-coordinated updates in erasure-coded data centers: Design and analysis. *IEEE Transactions on Computers*, 72(7):1871–1885, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ghose:2022:PLC

[GSK+22] Anirban Ghose, Siddharth Singh, Vivek Kulaharia, Lokesh Dokara, Srijeeta Maity, and Soumyajit Dey. PySchedCL: Leveraging concurrency in heterogeneous data-parallel systems. *IEEE Transactions on Computers*, 71(9):2234–2247, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Gu:2023:UMT

[GSS+23] Jinyu Gu, Jiacheng Shi, Haoran Su, Wentai Li, Binyu Zang, Haibing Guan, and Haibo Chen. Understanding and mitigating twin function misuses in operating system kernel. *IEEE Transactions on Computers*, 72(8): 2181–2193, August 2023. CODEN ITCOB4. ISSN 0018-

9340 (print), 1557-9956 (electronic).

Guan:2020:CMA

[GSY+20] Y. Guan, G. Sun, Z. Yuan, X. Li, N. Xu, S. Chen, J. Cong, and Y. Xie. Crane: Mitigating accelerator underutilization caused by sparsity irregularities in CNNs. *IEEE Transactions on Computers*, 69(7):931–943, July 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Genssler:2022:RFC

[GvSHA22] Paul R. Genssler, Victor M. van Santen, Jörg Henkel, and Hussam Amrouch. On the reliability of FeFET on-chip memory. *IEEE Transactions on Computers*, 71(4):947–958, April 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ganfure:2023:DIP

[GWCS23] Gaddisa Olani Ganfure, Chun-Feng Wu, Yuan-Hao Chang, and Wei-Kuan Shih. DeepWare: Imaging performance counters with deep learning to detect ransomware. *IEEE Transactions on Computers*, 72(3):600–613, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Gao:2024:EGR

[GWG+24] Yingxue Gao, Teng Wang, Lei Gong, Chao Wang, Yiqing Hu, Yi Yang, Zhongming Liu, Xi Li, and Xuehai Zhou. Enhancing graph random walk acceleration via efficient dataflow and hybrid memory architecture. *IEEE Transactions on Computers*, 73(3):887–901, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Gao:2023:IIV

[GWH+23] Chengsi Gao, Ying Wang, Yinhe Han, Weiwei Chen, and Lei Zhang. IVP: An intelligent video processing architecture for video streaming. *IEEE Transactions on Computers*, 72(1):264–277, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Gong:2023:EFM

[GWX+23] Lei Gong, Chao Wang, Haojun Xia, Xianglan Chen, Xi Li, and Xuehai Zhou. Enabling fast and memory-efficient acceleration for pattern matching workloads: The Lightweight Automata Processing Engine. *IEEE Transactions on Computers*, 72(4): 1011–1025, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Gu:2021:EHS

[GWZ+21] Jinyu Gu, Xinyue Wu, Bojun Zhu, Yubin Xia, Binyu Zang, Haibing Guan, and

Haibo Chen. Enclavisor: A hardware-software co-design for enclaves on untrusted cloud. *IEEE Transactions on Computers*, 70(10):1598–1611, October 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Guo:2024:ASD

[GXL+24] Cong Guo, Fengchen Xue, Jingwen Leng, Yuxian Qiu, Yue Guan, Weihao Cui, Quan Chen, and Minyi Guo. Accelerating sparse DNNs based on tiled GEMM. *IEEE Transactions on Computers*, 73(5):1275–1289, May 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Guo:2023:CCS

[GXY+23] Yihao Guo, Minghui Xu, Dongxiao Yu, Yong Yu, Rajiv Ranjan, and Xiuzhen Cheng. Cross-channel: Scalable off-chain channels supporting fair and atomic cross-chain operations. *IEEE Transactions on Computers*, 72(11):3231–3244, November 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Guo:2023:FMV

[GXZ+23] Hechuan Guo, Minghui Xu, Jiahao Zhang, Chunchi Liu, Dongxiao Yu, Schahram Dustdar, and Xiuzhen Cheng. FileDAG: a multi-version decentralized storage network built on DAG-based blockchain. *IEEE Transactions on Computers*, 72(11):3191–3202, November 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Guo:2024:BDB

[GXZ+24] Hechuan Guo, Minghui Xu, Jiahao Zhang, Chunchi Liu, Rajiv Ranjan, Dongxiao Yu, and Xiuzhen Cheng. BFT-DSN: a Byzantine fault-tolerant decentralized storage network. *IEEE Transactions on Computers*, 73(5):1300–1312, May 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Gong:2022:AHC

[GYH+22] Yu Gong, Miao Yin, Lingyi Huang, Chunhua Deng, and Bo Yuan. Algorithm and hardware co-design of energy-efficient LSTM networks for video recognition with hierarchical Tucker tensor decomposition. *IEEE Transactions on Computers*, 71(12):3101–3114, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Gao:2024:UUS

[GYS+24] Wei Gao, Zhisheng Ye, Peng Sun, Tianwei Zhang, and Yonggang Wen. UniSched: a unified scheduler for deep learning training jobs with dif-

ferent user demands. *IEEE Transactions on Computers*, 73(6):1500–1515, June 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Gu:2021:SDC

[GZC+21] H. Gu, J. Zhang, M. Chen, T. Wei, L. Lei, and F. Xie. Specification-driven conformance checking for virtual/silicon devices using mutation testing. *IEEE Transactions on Computers*, 70(3): 400–413, March 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Guo:2023:SCD

[GZG+23] Shaoyong Guo, Keqin Zhang, Bei Gong, Liandong Chen, Yinlin Ren, Feng Qi, and Xuesong Qiu. Sandbox computing: a data privacy trusted sharing paradigm via blockchain and federated learning. *IEEE Transactions on Computers*, 72(3): 800–810, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hassan:2023:DTC

[Has23] Mohamed Hassan. DISCO: Time-compositional cache coherence for multi-core real-time embedded systems. *IEEE Transactions on Computers*, 72(4):1163–1177, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Huang:2021:VAA

[HBB+21] Jiayi Huang, Shilpa Bhosekar, Rahul Boyapati, Ningyuan Wang, Byul Hur, Ki Hwan Yum, and Eun Jung Kim. A voting approach for adaptive network-on-chip power-gating. *IEEE Transactions on Computers*, 70(11):1962–1975, November 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hautala:2020:TPE

[HBS20a] I. Hautala, J. Boutellier, and O. Silvén. TTADF: Power efficient dataflow-based multicore co-design flow. *IEEE Transactions on Computers*, 69(1): 51–64, January 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hu:2020:LKE

[HBS+20b] J. Hu, M. Baldi, P. Santini, N. Zeng, S. Ling, and H. Wang. Lightweight key encapsulation using LDPC codes on FPGAs. *IEEE Transactions on Computers*, 69(3): 327–341, March 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

He:2024:TAS

[HC24] Zaobo He and Zhipeng Cai. Trading aggregate statistics

over private Internet of Things data. *IEEE Transactions on Computers*, 73(2):394–407, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

He:2023:HHG

[HCC+23] Shuibing He, Ping Chen, Shuaiben Chen, Zheng Li, Siling Yang, Weijian Chen, and Lidan Shou. HOME: a holistic GPU memory management framework for deep learning. *IEEE Transactions on Computers*, 72(3):826–838, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hadjilambrou:2021:HCE

[HDAS21] Zacharias Hadjilambrou, Shidhartha Das, Marco A. Antoniades, and Yiannakis Sazeides. Harnessing CPU electromagnetic emanations for resonance-induced voltage-noise characterization. *IEEE Transactions on Computers*, 70(9):1338–1349, September 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Houssam-Eddine:2021:HDT

[HECC+21] Zahaf Houssam-Eddine, Nicola Capodieci, Roberto Cavicchioli, Giuseppe Lipari, and Marko Bertogna. The HPC-DAG task model for heterogeneous real-time systems. *IEEE Transactions on Computers*, 70(10):1747–1761, October 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hoffmann:2022:OML

[HF22] José Luis Conradi Hoffmann and Antônio Augusto Fröhlich. Online machine learning for energy-aware multicore real-time embedded systems. *IEEE Transactions on Computers*, 71(2):493–505, February 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hanlon:2023:FHP

[HF23] James Hanlon and Stephen Felix. A fast hardware pseudorandom number generator based on `xoroshiro128`. *IEEE Transactions on Computers*, 72(5):1518–1524, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Huang:2022:FBM

[HGC+22] Xing Huang, Wenzhong Guo, Zhisheng Chen, Bing Li, Tsung-Yi Ho, and Ulf Schlichtmann. Flow-based microfluidic biochips with distributed channel storage: Synthesis, physical design, and wash optimization. *IEEE Transactions on Computers*, 71(2):464–478, February 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Heidari:2022:CCA

[HGK+22] Soroush Heidari, Mehdi Ghasemi, Young Geun Kim, Carole-Jean Wu, and Sarma Vrudhula. CAMDNN: Content-aware mapping of a network of deep neural networks on edge MPSoCs. *IEEE Transactions on Computers*, 71(12):3191–3202, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hasegawa:2023:PRH

[HHN+23] Kento Hasegawa, Seira Hidano, Kohei Nozawa, Shinsaku Kiyomoto, and Nozomu Togawa. `R-HTDetector`: Robust hardware-trojan detection based on adversarial training. *IEEE Transactions on Computers*, 72(2): 333–345, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Han:2020:HLA

[HHPB20] M. Han, J. Hyun, S. Park, and W. Baek. Hotness- and lifetime-aware data placement and migration for high-performance deep learning on heterogeneous memory systems. *IEEE Transactions on Computers*, 69(3): 377–391, March 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hao:2023:SBA

[HHZ+23] Tianshu Hao, Kai Hwang, Jianfeng Zhan, Yuejin Li, and Yong Cao. Scenario-based AI benchmark evaluation of distributed cloud/edge computing systems. *IEEE Transactions on Computers*, 72(3): 719–731, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Huang:2022:PDS

[HJYL22] Jianjun Huang, Jiasheng Jiang, Wei You, and Bin Liang. Precise dynamic symbolic execution for nonuniform data access in smart contracts. *IEEE Transactions on Computers*, 71(7):1551–1563, July 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hameed:2021:IPB

[HKC21] Fazal Hameed, Asif Ali Khan, and Jeronimo Castrillon. Improving the performance of block-based DRAM caches via tag-data decoupling. *IEEE Transactions on Computers*, 70(11):1914–1927, November 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hakert:2023:RRM

[HKC+23] Christian Hakert, Asif Ali Khan, Kuan-Hsun Chen, Fazal Hameed, Jeronimo Castrillon, and Jian-Jia Chen.

ROLLED: Racetrack memory optimized linear layout and efficient decomposition of decision trees. *IEEE Transactions on Computers*, 72(5): 1488–1502, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Han:2020:WSA

[HKS20] K. Han, H. Kim, and D. Shin. WAL-SSD: Address remapping-based write-ahead-logging solid-state disks. *IEEE Transactions on Computers*, 69(2):260–273, February 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hu:2022:SVM

[HLC+22] Xing Hu, Ling Liang, Xiaobing Chen, Lei Deng, Yu Ji, Yufei Ding, Zidong Du, Qi Guo, Timothy Sherwood, and Yuan Xie. A systematic view of model leakage risks in deep neural network systems. *IEEE Transactions on Computers*, 71(12):3254–3267, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Huang:2023:ILB

[HLF+23] Shaohan Huang, Yi Liu, Carol Fung, He Wang, Hailong Yang, and Zhongzhi Luan. Improving log-based anomaly detection by pre-training hierarchical transformers. *IEEE Transactions on Computers*, 72(9):2656–2667, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Han:2020:ADL

[HLL+20] R. Han, C. H. Liu, S. Li, S. Wen, and X. Liu. Accelerating deep learning systems via critical set identification and model compression. *IEEE Transactions on Computers*, 69(7):1059–1070, July 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hsieh:2021:TTS

[HLLC21] Jen-Wei Hsieh, Yi-Yu Liu, Hung-Tse Lee, and Tai Chang. TSE: Two-step elimination for MLC STT-RAM last-level cache. *IEEE Transactions on Computers*, 70(9):1498–1510, September 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hanson:2023:DDR

[HLQ+23] Edward Hanson, Shiyu Li, Xuehai Qian, Hai Helen Li, and Yiran Chen. DyNNamic: Dynamically reshaping, high data-reuse accelerator for compact DNNs. *IEEE Transactions on Computers*, 72(3):880–892, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Han:2023:SGS

[HLS+23a] Shujie Han, Patrick P. C. Lee, Zhirong Shen, Cheng He, Yi Liu, and Tao Huang. StreamDFP: a general stream mining framework for adaptive disk failure prediction. *IEEE Transactions on Computers*, 72(2):520–534, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hu:2023:ESR

[HLS+23b] Chuang Hu, Rui Lu, Qianlong Sang, Huanghuang Liang, Dan Wang, Dazhao Cheng, Jin Zhang, Qing Li, and JunKun Peng. An edge-side real-time video analytics system with dual computing resource control. *IEEE Transactions on Computers*, 72(12):3399–3415, December 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Huang:2023:HPH

[HLT+23] Hao Huang, Xiao-Yang Liu, Weiqin Tong, Tao Zhang, Anwar Walid, and Xiaodong Wang. High performance hierarchical Tucker tensor learning using GPU tensor cores. *IEEE Transactions on Computers*, 72(2):452–465, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hepola:2024:EEE

[HMJ24] Kari Hepola, Joonas Multanen, and Pekka Jääskeläinen. Energy-efficient exposed datapath architecture with a RISC-V instruction set mode. *IEEE Transactions on Computers*, 73(2):560–573, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Huang:2021:CRN

[HMK+21] Jiayi Huang, Pritam Majumder, Sungkeun Kim, Troy Fulton, Ramprakash Reddy Puli, Ki Hwan Yum, and Eun Jung Kim. Computing en-route for near-data processing. *IEEE Transactions on Computers*, 70(6):906–921, June 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Haghbayan:2023:RTR

[HMMP23] Hashem Haghbayan, Antonio Miele, Onur Mutlu, and Juha Plosila. Run-time resource management in CMPs handling multiple aging mechanisms. *IEEE Transactions on Computers*, 72(10):2872–2887, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Heinz:2023:CFD

[HP23] Daniel Heinz and Thomas Pöppelmann. Combined fault and DPA protection

for lattice-based cryptography. *IEEE Transactions on Computers*, 72(4):1055–1066, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Heuser:2020:LCT

[HPGM20] A. Heuser, S. Picek, S. Guilley, and N. Mentens. Lightweight ciphers and their side-channel resilience. *IEEE Transactions on Computers*, 69(10):1434–1448, October 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Han:2022:EEG

[HPJK22] Yunki Han, Kangkyu Park, Youngbeom Jung, and Lee-Sup Kim. EGCN: an efficient GCN accelerator for minimizing off-chip memory access. *IEEE Transactions on Computers*, 71(12):3127–3139, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hamann:2022:SCR

[HR22] Heiko Hamann and Andreagiovanni Reina. Scalability in computing and robotics. *IEEE Transactions on Computers*, 71(6):1453–1465, June 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Han:2022:RBI

[HS22] Kyuhwa Han and Dongkun Shin. Remap-based inter-partition copy for arrayed solid-state drives. *IEEE Transactions on Computers*, 71(7):1640–1654, July 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Harris:2024:UDS

[HSE+24] David Harris, James Stine, Milo Ercegovac, Alberto Nannarelli, Katherine Parry, and Cedar Turek. Unified digit selection for radix-4 recurrence division and square root. *IEEE Transactions on Computers*, 73(1):292–300, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Heo:2022:APM

[HWC+22a] Taekyung Heo, Yang Wang, Wei Cui, Jaehyuk Huh, and Lintao Zhang. Adaptive page migration policy with huge pages in tiered memory systems. *IEEE Transactions on Computers*, 71(1):53–68, January 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hu:2022:SMB

[HWC+22b] Yupeng Hu, Linjun Wu, Zhuojun Chen, Yun Huang, Xiaolin Xu, Keqin Li, and Jiliang Zhang. STT-MRAM-based reliable weak PUF2.

IEEE Transactions on Computers, 71(7):1564–1574, July 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hu:2023:EPR

[HWG+23] Jingwei Hu, Wen Wang, Kris Gaj, Liping Wang, and Huaxiong Wang. Engineering practical rank-code-based cryptographic schemes on embedded hardware. A case study on ROLLO. *IEEE Transactions on Computers*, 72(7): 2094–2110, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Huang:2021:PAC

[HWJ+21] Sitao Huang, Kun Wu, Hyunmin Jeong, Chengyue Wang, Deming Chen, and Wen-Mei Hwu. PyLog: An algorithm-centric Python-based FPGA programming and synthesis flow. *IEEE Transactions on Computers*, 70(12):2015–2028, December 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Huang:2021:EPS

[HWL+21] Dan Huang, Jun Wang, Qing Liu, Nong Xiao, Huafeng Wu, and Jiangling Yin. Enhancing proportional I/O sharing on containerized big data file systems. *IEEE Transactions on Computers*, 70(12):2083–2097, December 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Huang:2022:STB

[HWZ+22] Hongjing Huang, Zeke Wang, Jie Zhang, Zhenhao He, Chao Wu, Jun Xiao, and Gustavo Alonso. Shuhai: A tool for benchmarking high bandwidth memory on FPGAs. *IEEE Transactions on Computers*, 71(5):1133–1144, May 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Huo:2020:ITA

[HXGR20] Z. Huo, L. Xiao, M. Guo, and X. Rong. Incremental throughput allocation of heterogeneous storage with no disruptions in dynamic setting. *IEEE Transactions on Computers*, 69(5):679–698, May 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic). URL `https://ieeexplore.ieee.org/document/8946738`.

Huang:2023:BQI

[HXL+23] Tian Huang, Jun Xu, Tao Luo, Xiaozhe Gu, Rick Goh, and Weng-Fai Wong. Benchmarking quantum(-inspired) annealing hardware on practical use cases. *IEEE Transactions on Computers*, 72(6): 1692–1705, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

He:2020:OPA

[HYS+20] S. He, Y. Yin, X. Sun, X. Zhang, and Z. Li. Optimizing parallel I/O accesses through pattern-directed and layout-aware replication. *IEEE Transactions on Computers*, 69(2):212–225, February 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Huang:2021:EEC

[HYW+21] L. Huang, C. Yuan, J. Wang, M. Ebrahimi, X. Xie, and Q. Li. ECDR^{2}2: Error corrector and detector relocation router for network-on-chip. *IEEE Transactions on Computers*, 70(4):606–613, April 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Haider:2024:DRA

[HZK24] Muhammad Hamis Haider, Hao Zhang, and Seok-Bum Ko. Decoder reduction approximation scheme for Booth multipliers. *IEEE Transactions on Computers*, 73(3): 735–746, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hu:2023:ARL

[HZM+23] Ming Hu, Min Zhang, Frédéric Mallet, Xin Fu, and Mingsong Chen. Accelerating reinforcement learning-based CCSL specification synthesis using curiosity-driven exploration. *IEEE Transactions on Computers*, 72(5):1431–1446, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Huang:2024:DMT

[HZMC24] Wenjie Huang, Zhiwei Zhao, Geyong Min, and Jiajun Chen. Distributed multihop task offloading in massive heterogeneous IoT systems. *IEEE Transactions on Computers*, 73(4):1126–1137, April 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Huang:2023:ABC

[HZR+23] Hang Huang, Yuqing Zhao, Jia Rao, Song Wu, Hai Jin, Duoqiang Wang, Suo Kun, and Lisong Pan. Adapt burstable containers to variable CPU resources. *IEEE Transactions on Computers*, 72(3):614–626, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hadjadj:2023:VVC

[HZT+23] Yacine Hadjadj, Chakib Mustapha Anouar Zouaoui, Nasreddine Taleb, Sarah Mazari, Mohamed El Bahri, and Miloud Chikr El Mezouar. VCMalloc: a virtually contiguous memory allocator. *IEEE Transactions on Computers*, 72(12):3431–3442, December 2023. CODEN ITCOB4. ISSN 0018-

9340 (print), 1557-9956 (electronic).

Huang:2022:IAH

[HZYY22] Yaodong Huang, Yiming Zeng, Fan Ye, and Yuanyuan Yang. Incentive assignment in hybrid consensus blockchain systems in pervasive edge environments. *IEEE Transactions on Computers*, 71(9): 2102–2115, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Iparraguirre:2022:ACH

[IDFH22] Daniel Iparraguirre, José G. Delgado-Frias, and Howard Heck. Asymmetric crosstalk harness signaling for common eigenmode elimination. *IEEE Transactions on Computers*, 71(9):2048–2058, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ibrahim:2024:ASM

[IIEKS24] Abrar A. Ibrahim, Ahmed M. Y. Ibrahim, M. Watheq El-Kharashi, and Mona Safar. Adaptive SAT modeling for optimal pattern retargeting in IEEE 1687 networks. *IEEE Transactions on Computers*, 73(2):536–547, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Islam:2022:EHM

[IKAG+22] Md Shohidul Islam, Khaled N. Khasawneh, Nael Abu-Ghazaleh, Dmitry Ponomarev, and Lei Yu. Efficient hardware malware detectors that are resilient to adversarial evasion. *IEEE Transactions on Computers*, 71(11):2872–2887, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Imran:2022:CEA

[IKTY22] Muhammad Imran, Taehyun Kwon, Nur A. Touba, and Joon-Sung Yang. CEnT: An efficient architecture to eliminate intra-array write disturbance in PCM. *IEEE Transactions on Computers*, 71(5): 992–1007, May 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Imana:2021:LBB

[Ima21] J. L. Imaña. LFSR-based bit-serial $GF(2^m)$ multipliers using irreducible trinomials. *IEEE Transactions on Computers*, 70(1):156–162, January 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Iserte:2021:DEC

[IMQOP21] Sergio Iserte, Rafael Mayo, Enrique S. Quintana-Ortí, and Antonio J. Peña. DMRlib: Easy-coding and efficient resource management for job

malleability. *IEEE Transactions on Computers*, 70(9): 1443–1457, September 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Islam:2022:SBS

[IWKB22] Muhammed Tawfiqul Islam, Huaming Wu, Shanika Karunasekera, and Rajkumar Buyya. SLA-based scheduling of Spark jobs in hybrid cloud computing environments. *IEEE Transactions on Computers*, 71(5):1117–1132, May 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jin:2022:ESC

[JCKH22] Sunghyun Jin, Sung Min Cho, HeeSeok Kim, and Seokhie Hong. Enhanced side-channel analysis on ECDSA employing fixed-base comb method. *IEEE Transactions on Computers*, 71(9):2341–2350, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jiang:2023:UBA

[JCY+23] Xu Jiang, Zewei Chen, Maolin Yang, Nan Guan, Yue Tang, and Yi Wang. A unified blocking analysis for parallel tasks with spin locks under global fixed priority scheduling. *IEEE Transactions on Computers*, 72(1):15–28, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jin:2023:AGC

[JCZ+23] Hai Jin, Dan Chen, Long Zheng, Yu Huang, Pengcheng Yao, Jin Zhao, Xiaofei Liao, and Wenbin Jiang. Accelerating graph convolutional networks through a PIM-accelerated approach. *IEEE Transactions on Computers*, 72(9):2628–2640, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jiang:2023:HRI

[JDB+23] Zhe Jiang, Xiaotian Dai, Alan Burns, Neil Audsley, Zonghua Gu, and Ian Gray. A high-resilience imprecise computing architecture for mixed-criticality systems. *IEEE Transactions on Computers*, 72(1):29–42, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jiang:2023:PGP

[JDCL23] Lin Jiang, Anthony Dowling, Ming-C. Cheng, and Yu Liu. PODTherm-GP: a physics-based data-driven approach for effective architecture-level thermal simulation of multicore CPUs. *IEEE Transactions on Computers*, 72(10): 2951–2962, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jiang:2021:APR

[JGD+21] X. Jiang, N. Guan, H. Du, W. Liu, and W. Yi. On the analysis of parallel real-time tasks with spin locks. *IEEE Transactions on Computers*, 70(2):199–211, February 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jin:2023:LBE

[JHMM23] Rui Jin, Jia Hu, Geyong Min, and Jed Mills. Lightweight blockchain-empowered secure and efficient federated edge learning. *IEEE Transactions on Computers*, 72(11):3314–3325, November 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jo:2022:DLG

[JJKP22] Yong-Yeon Jo, Myung-Hwan Jang, Sang-Wook Kim, and Sunju Park. A data layout with good data locality for single-machine based graph engines. *IEEE Transactions on Computers*, 71(8): 1784–1793, August 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jin:2022:AFB

[JKHL22] Yunho Jin, Shine Kim, Tae Jun Ham, and Jae W. Lee. Architecting a flash-based storage system for low-cost inference of extreme-scale DNNs. *IEEE Transactions on Computers*, 71(12):3153–3164, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jang:2022:SSD

[JKK+22] Yunho Jang, Gyuseong Kang, Taehwan Kim, Yeongkyo Seo, Kyung-Jin Lee, Byong-Guk Park, and Jongsun Park. Stochastic SOT device based SNN architecture for on-chip unsupervised STDP learning. *IEEE Transactions on Computers*, 71(9):2022–2035, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jang:2024:ZNW

[JKNK24] Myeongjae Jang, Jinkwon Kim, Haejin Nam, and Soontae Kim. Zero and narrow-width value-aware compression for quantized convolutional neural networks. *IEEE Transactions on Computers*, 73(1):249–262, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jia:2020:EEF

[JLL+20] L. Jia, Y. Liang, X. Li, L. Lu, and S. Yan. Enabling efficient fast convolution algorithms on GPUs via MegaKernels. *IEEE Transactions on Computers*, 69(7):986–997, July 2020. CODEN ITCOB4. ISSN 0018-

9340 (print), 1557-9956 (electronic).

Ju:2022:CNN

[JLL22] Sanghyeon Ju, Youngjoo Lee, and Sunggu Lee. Convolutional neural networks with discrete cosine transform features. *IEEE Transactions on Computers*, 71(12):3389–3395, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jiang:2021:DCA

[JLY+21] W. Jiang, Q. Lou, Z. Yan, L. Yang, J. Hu, X. S. Hu, and Y. Shi. Device-circuit-architecture co-exploration for computing-in-memory neural accelerators. *IEEE Transactions on Computers*, 70(4): 595–605, April 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ji:2021:RAR

[JLZ21] Y. Ji, Z. Liu, and Y. Zhang. A reduced architecture for ReRAM-based neural network accelerator and its software stack. *IEEE Transactions on Computers*, 70(3): 316–331, March 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jiang:2023:DDB

[JLZ+23] Wei Jiang, Xinke Liao, Jinyu Zhan, Deepak Adhikari, and Ke Jiang. DESCO: Decomposition-based co-design to improve fault tolerance of security-critical tasks in cyber physical systems. *IEEE Transactions on Computers*, 72(6):1652–1665, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jha:2021:MDR

[JM21] Nandan Kumar Jha and Sparsh Mittal. Modeling data reuse in deep neural networks by taking data-types into cognizance. *IEEE Transactions on Computers*, 70(9):1526–1538, September 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jia:2024:SRK

[JMW+24] Ju Jia, Siqi Ma, Lina Wang, Yang Liu, and Robert H. Deng. A secure and robust knowledge transfer framework via stratified-causality distribution adjustment in intelligent collaborative services. *IEEE Transactions on Computers*, 73(1):58–72, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jiang:2020:CCM

[JPHY20] H. Jiang, X. Peng, S. Huang, and S. Yu. CIMAT: A compute-in-memory architecture for on-chip training based on transpose SRAM arrays.

IEEE Transactions on Computers, 69(7):944–954, July 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jie:2024:SFB

[JQK+24] Wanqing Jie, Wangjie Qiu, Arthur Sandor Voundi Koe, Jianhong Li, Yin Wang, Yaqi Wu, Jin Li, and Zhiming Zheng. A secure and flexible blockchain-based offline payment protocol. *IEEE Transactions on Computers*, 73(2): 408–421, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jiang:2020:UTB

[JSTG20] X. Jiang, J. Sun, Y. Tang, and N. Guan. Utilization-tensity bound for real-time DAG tasks under global EDF scheduling. *IEEE Transactions on Computers*, 69(1): 39–50, January 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jiang:2022:BTP

[JWD+22] Zhe Jiang, Ran Wei, Pan Dong, Yan Zhuang, Neil C. Audsley, and Ian Gray. BlueVisor: Time-predictable hardware hypervisor for many-core embedded systems. *IEEE Transactions on Computers*, 71(9):2205–2218, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ji:2023:TOA

[JWG+23] Tingxiang Ji, Xili Wan, Xinjie Guan, Aichun Zhu, and Feng Ye. Towards optimal application offloading in heterogeneous edge-cloud computing. *IEEE Transactions on Computers*, 72(11):3259–3272, November 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jalali:2023:MBS

[JWK+23] Zeinab S. Jalali, Chenghong Wang, Griffin Kearney, Geng Yuan, Caiwen Ding, Yinan Zhou, Yanzhi Wang, and Sucheta Soundarajan. Memristor-based spectral decomposition of matrices and its applications. *IEEE Transactions on Computers*, 72(5): 1460–1472, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jin:2021:TIC

[JWS+21] H. Jin, W. Wu, X. Shi, L. He, and B. B. Zhou. TurboDL: Improving the CNN training on GPU with fine-grained multi-streaming scheduling. *IEEE Transactions on Computers*, 70(4):552–565, April 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jin:2023:PSA

[JWS+23] Hai Jin, Shuo Wei, Yan Sha, Chencheng Ye, Haikun Liu, and Xiaofei Liao. PM-LiteDB: Streamlining access paths for high-performance persistent memory document database systems. *IEEE Transactions on Computers*, 72(6):1778–1791, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jin:2022:CDI

[JXH+22] Yan Jin, Bowen Xiong, Kun He, Jin-Kao Hao, Chu-Min Li, and Zhang-Hua Fu. Clustering driven iterated hybrid search for vertex bisection minimization. *IEEE Transactions on Computers*, 71(10): 2370–2380, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jiang:2023:AIR

[JYF+23] Zhe Jiang, Kecheng Yang, Nathan Fisher, Ian Gray, Neil C. Audsley, and Zheng Dong. AXI-IC^{RT} RT: Towards a real-time AXI-interconnect for highly integrated SoCs. *IEEE Transactions on Computers*, 72(3):786–799, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jiang:2024:FFA

[JYH+24] Hao Jiang, Jintao Yang, Guang Hua, Lixia Li, Ying Wang, Shenghui Tu, and Song Xia. FAWA: Fast Adversarial Watermark Attack. *IEEE Transactions on Computers*, 73(2):301–313, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Javadi:2020:SCM

[JYM20] M. H. S. Javadi, M. H. Yalame, and H. R. Mahdiani. Small constant mean-error imprecise adder/multiplier for efficient VLSI implementation of MAC-based applications. *IEEE Transactions on Computers*, 69(9):1376–1387, September 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jiang:2023:THR

[JYM+23] Zhe Jiang, Kecheng Yang, Yunfeng Ma, Nathan Fisher, Neil Audsley, and Zheng Dong. Towards hard real-time and energy-efficient virtualization for many-core embedded systems. *IEEE Transactions on Computers*, 72(1): 111–126, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jin:2024:MRP

[JZH+24] Hai Jin, Zhanyang Zhu, Ligang He, Yuhao Li, Yusheng Hua, and Xuanhua Shi. MM-DataLoader: Reusing prepro-

cessed data among concurrent model training tasks. *IEEE Transactions on Computers*, 73(2):510–522, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Jing:2023:EFT

[JZY+23] Guanlin Jing, Yifei Zou, Dongxiao Yu, Chuanwen Luo, and Xiuzhen Cheng. Efficient fault-tolerant consensus for collaborative services in edge computing. *IEEE Transactions on Computers*, 72(8): 2139–2150, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kishani:2020:MFR

[KAA20] M. Kishani, S. Ahmadian, and H. Asadi. A modeling framework for reliability of erasure codes in SSD arrays. *IEEE Transactions on Computers*, 69(5):649–665, May 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic). URL `https://ieeexplore.ieee.org/document/8944129`.

Karabulut:2022:EFC

[KAA22] Emre Karabulut, Erdem Alkim, and Aydin Aysu. Efficient, flexible, and constant-time Gaussian sampling hardware for lattice cryptography. *IEEE Transactions on Computers*, 71(8):1810–1823, August 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Karanth:2024:EEF

[Kar24] Avinash Karanth. Editorial: EiC farewell and introduction of new EiC. *IEEE Transactions on Computers*, 73(1): 1–2, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kumar:2023:MLB

[KASAG23] Ajay Krishna Ananda Kumar, Sami Al-Salamin, Hussam Amrouch, and Andreas Gerstlauer. Machine learning-based microarchitecture-level power modeling of CPUs. *IEEE Transactions on Computers*, 72(4):941–956, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kim:2023:SSA

[KAWR23] Dong Eun Kim, Aayush Ankit, Cheng Wang, and Kaushik Roy. SAMBA: Sparsity aware in-memory computing based machine learning accelerator. *IEEE Transactions on Computers*, 72(9): 2615–2627, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kwon:2021:HQC

[KB21] Hyeokjea Kwon and Joonwoo Bae. A hybrid quantum-classical approach to miti-

gating measurement errors in quantum algorithms. *IEEE Transactions on Computers*, 70(9):1401–1411, September 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Klein:2023:AAM

[KBQ+23] Joshua Klein, Irem Boybat, Yasir Mahmood Qureshi, Martino Dazzi, Alexandre Levisse, Giovanni Ansaloni, Marina Zapater, Abu Sebastian, and David Atienza. ALPINE: Analog in-memory acceleration with tight processor integration for deep learning. *IEEE Transactions on Computers*, 72(7):1985–1998, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kundu:2023:TSG

[KBR+23] Shamik Kundu, Suvadeep Banerjee, Arnab Raha, Fei Su, Suriyaprakash Natarajan, and Kanad Basu. Troubleshooting at GAN point: Improving functional safety in deep learning accelerators. *IEEE Transactions on Computers*, 72(8):2194–2208, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Koo:2021:CAM

[KCAL21] J. Koo, C. Chung, Arvind, and S. Lee. A case for application-managed flash. *IEEE Transactions on Computers*, 70(2): 240–254, February 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kim:2020:MSM

[KCL+20] B. Kim, J. Chung, E. Lee, W. Jung, S. Lee, J. Choi, J. Park, M. Wi, S. Lee, and J. H. Ahn. MViD: Sparse matrix–vector multiplication in mobile DRAM for accelerating recurrent neural networks. *IEEE Transactions on Computers*, 69(7):955–967, July 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kar:2023:DDM

[KCS23] Pushpendu Kar, Kewei Chen, and Jiayi Shi. DMACN: a dynamic multi-attribute caching mechanism for NDN-based remote health monitoring system. *IEEE Transactions on Computers*, 72(5):1301–1313, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kim:2024:GBA

[KDE+24] Andrey Kim, Maxim Deryabin, Jieun Eom, Rakyong Choi, Yongwoo Lee, Whan Ghang, and Donghoon Yoo. General bootstrapping approach for RLWE-based homomorphic encryption. *IEEE Transactions on Computers*, 73(1): 86–96, January 2024. CODEN ITCOB4. ISSN 0018-

9340 (print), 1557-9956 (electronic).

Kuo:2023:RVG

[KGHRM23] Yao-Ming Kuo, Francisco García-Herrero, Oscar Ruano, and Juan Antonio Maestro. RISC-V Galois Field ISA extension for non-binary error-correction codes and classical and post-quantum cryptography. *IEEE Transactions on Computers*, 72(3): 682–692, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kim:2023:EAS

[KH23] Jangryul Kim and Soonhoi Ha. Energy-aware scenario-based mapping of deep learning applications onto heterogeneous processors under real-time constraints. *IEEE Transactions on Computers*, 72(6): 1666–1680, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kim:2021:CCA

[KHHK21] Jinkwon Kim, Seokin Hong, Jeongkyu Hong, and Soontae Kim. CID: Co-architecting instruction cache and decompression system for embedded systems. *IEEE Transactions on Computers*, 70(7): 1132–1145, July 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kaushik:2021:DPC

[KHP21] Anirudh Mohan Kaushik, Mohamed Hassan, and Hiren Patel. Designing predictable cache coherence protocols for multi-core real-time systems. *IEEE Transactions on Computers*, 70(12):2098–2111, December 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kwon:2021:REH

[KIY21] Taehyun Kwon, Muhammad Imran, and Joon-Sung Yang. Reliability enhanced heterogeneous phase change memory architecture for performance and energy efficiency. *IEEE Transactions on Computers*, 70(9):1388–1400, September 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kang:2021:FEE

[KJC+21] Yoonsuk Kang, Yong-Yeon Jo, Jaehyuk Cha, Wan D. Bae, Wonjun Lee, and Sang-Wook Kim. FORESEE: An effective and efficient framework for estimating the execution times of I/O traces on the SSD. *IEEE Transactions on Computers*, 70(12):2146–2160, December 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kim:2022:SMD

[KJK+22] Taehwan Kim, Yunho Jang, Min-Gu Kang, Byong-Guk Park, Kyung-Jin Lee, and Jongsun Park. SOT-MRAM digital PIM architecture with extended parallelism in matrix multiplication. *IEEE Transactions on Computers*, 71(11): 2816–2828, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kim:2024:AFR

[KJK24] Hyeonuk Kim, Youngbeom Jung, and Lee-Sup Kim. ADC-free ReRAM-based in-situ accelerator for energy-efficient binary neural networks. *IEEE Transactions on Computers*, 73(2):353–365, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Khodabandeloo:2022:PSA

[KKB+22] Behnam Khodabandeloo, Ahmad Khonsari, Payman Behnam, Alireza Majidi, and Mohammad Hassan Hajiesmaili. `Stereo`: Assignment and scheduling in MPSoC under process variation by combining stochastic and decomposition approaches. *IEEE Transactions on Computers*, 71(11): 2940–2954, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kang:2022:MBC

[KKH22] Duseok Kang, Donghyun Kang, and Soonhoi Ha. Multi-bank on-chip memory management techniques for CNN accelerators. *IEEE Transactions on Computers*, 71(5): 1181–1193, May 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kim:2020:ATM

[KKKC20] Y. G. Kim, M. Kim, J. Kong, and S. W. Chung. An adaptive thermal management framework for heterogeneous multicore processors. *IEEE Transactions on Computers*, 69(6): 894–906, June 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kang:2022:OGP

[KKRK22] Jaeyoung Kang, Behnam Khaleghi, Tajana Rosing, and Yeseong Kim. OpenHD: A GPU-powered framework for hyperdimensional computing. *IEEE Transactions on Computers*, 71(11):2753–2765, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kang:2022:FNF

[KKS+22] Myeonggu Kang, Hyeonuk Kim, Hyein Shin, Jaehyeong Sim, Kyeonghan Kim, and Lee-Sup Kim. S-FLASH:

a NAND flash-based deep neural network accelerator exploiting bit-level sparsity. *IEEE Transactions on Computers*, 71(6):1291–1304, June 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kim:2020:SSA

[KLC20] Y. G. Kim, Y. S. Lee, and S. W. Chung. Signal strength-aware adaptive offloading with local image preprocessing for energy efficient mobile devices. *IEEE Transactions on Computers*, 69(1):99–111, January 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kang:2023:PSM

[KLKK23] Mincheol Kang, Wonyoung Lee, Jinkwon Kim, and Soontae Kim. PR-SSD: Maximizing partial read potential by exploiting compression and channel-level parallelism. *IEEE Transactions on Computers*, 72(3):772–785, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kong:2021:HPC

[KLL21] Liang Kong, Shuguo Li, and Ruirui Liu. High-performance constant-time discrete Gaussian sampling. *IEEE Transactions on Computers*, 70(7): 1019–1033, July 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kim:2021:NBS

[KLP+21] Bogil Kim, Sungjae Lee, Chanho Park, Hyeonjin Kim, and William J. Song. The Nebula Benchmark Suite: Implications of lightweight neural networks. *IEEE Transactions on Computers*, 70(11):1887–1900, November 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Krishnankutty:2020:ISI

[KLR+20] D. Krishnankutty, Z. Li, R. Robucci, N. Banerjee, and C. Patel. Instruction sequence identification and disassembly using power supply side-channel analysis. *IEEE Transactions on Computers*, 69(11): 1639–1653, November 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kiningham:2023:GGN

[KLR23] Kevin Kiningham, Philip Levis, and Christopher Ré. GRIP: a graph neural network accelerator architecture. *IEEE Transactions on Computers*, 72(4):914–925, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kim:2023:WCA

[KMH+23] Sungkeun Kim, Farabi Mahmud, Jiayi Huang, Pri-

tam Majumder, Chia-Che Tsai, Abdullah Muzahid, and Eun Jung Kim. WHISTLE: CPU abstractions for hardware and software memory safety invariants. *IEEE Transactions on Computers*, 72(3): 811–825, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kirkland:2022:USI

[KMVD22] Paul Kirkland, Davide Manna, Alex Vicente, and Gaetano Di Caterina. Unsupervised spiking instance segmentation on event data using STDP features. *IEEE Transactions on Computers*, 71(11):2728–2739, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kundu:2020:PDS

[KNP+20] S. Kundu, M. Nazemi, M. Pedram, K. M. Chugg, and P. A. Beerel. Pre-defined sparsity for low-complexity convolutional neural networks. *IEEE Transactions on Computers*, 69(7):1045–1058, July 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Koc:2020:AIM

[Koç20] Çetin Kaya Koç. Algorithms for inversion mod p^k. *IEEE Transactions on Computers*, 69(6):907–913, June 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Khan:2023:DTS

[KOH+23] Asif Ali Khan, Sebastien Ollivier, Fazal Hameed, Jeronimo Castrillon, and Alex K. Jones. DownShift: Tuning shift reduction with reliability for racetrack memories. *IEEE Transactions on Computers*, 72(9):2585–2599, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Koo:2023:FEI

[KOT+23] Gunjae Koo, Yunho Oh, Hung-Wei Tseng, Won Woo Ro, and Murali Annavaram. FLIXR: Embedding index into flash translation layer in SSDs. *IEEE Transactions on Computers*, 72(1):250–263, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kim:2023:ALS

[KPD+23] Ji-Hoon Kim, Yeo-Reum Park, Jaeyoung Do, Soo-Young Ji, and Joo-Young Kim. Accelerating large-scale graph-based nearest neighbor search on a computational storage platform. *IEEE Transactions on Computers*, 72(1): 278–290, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kim:2022:CCP

[KPL+22] Namhyung Kim, Hanmin Park, Dongwoo Lee, Sungbum Kang, Jinho Lee, and Kiyoung Choi. ComPreEND: Computation pruning through predictive early negative detection for ReLU in a deep neural network accelerator. *IEEE Transactions on Computers*, 71(7): 1537–1550, July 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kurth:2022:OSP

[KRB+22] Andreas Kurth, Wolfgang Rönninger, Thomas Benz, Matheus Cavalcante, Fabian Schuiki, Florian Zaruba, and Luca Benini. An open-source platform for high-performance non-coherent on-chip communication. *IEEE Transactions on Computers*, 71(8):1794–1809, August 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kang:2023:MFE

[KSKK23] Myeonggu Kang, Hyein Shin, Junkyum Kim, and Lee-Sup Kim. MGen: a framework for energy-efficient In-ReRAM acceleration of multi-task BERT. *IEEE Transactions on Computers*, 72(11): 3140–3152, November 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kazemi:2022:FMB

[KSL+22] Arman Kazemi, Mohammad Mehdi Sharifi, Ann Franchesca Laguna, Franz Müller, Xunzhao Yin, Thomas Kämpfe, Michael Niemier, and X. Sharon Hu. FeFET multi-bit content-addressable memories for in-memory nearest neighbor search. *IEEE Transactions on Computers*, 71(10):2565–2576, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Kalali:2022:NPP

[KvL22] Ercan Kalali and Rene van Leuken. Near-precise parameter approximation for multiple multiplications on a single DSP block. *IEEE Transactions on Computers*, 71(9): 2036–2047, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Koliogeorgi:2022:PGD

[KXGS22] Konstantina Koliogeorgi, Sotirios Xydis, Georgi Gaydadjiev, and Dimitrios Soudris. `GANDAFL`: Dataflow acceleration for short read alignment on NGS data. *IEEE Transactions on Computers*, 71(11):3018–3031, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Krishnan:2022:EMS

[KYS+22] Gokul Krishnan, Li Yang, Jingbo Sun, Jubin Hazra, Xiaocong Du, Maximilian Liehr, Zheng Li, Karsten Beckmann, Rajiv V. Joshi, Nathaniel C. Cady, Deliang Fan, and Yu Cao. Exploring model stability of deep neural networks for reliable RRAM-based in-memory acceleration. *IEEE Transactions on Computers*, 71(11):2740–2752, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2020:ESI

[LAKS20] Z. Liu, R. Azarderakhsh, H. Kim, and H. Seo. Efficient software implementation of ring-LWE encryption on IoT processors. *IEEE Transactions on Computers*, 69(10): 1424–1433, October 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lumpp:2021:TMS

[LAPB21] Francesco Lumpp, Stefano Aldegheri, Hiren D. Patel, and Nicola Bombieri. Task mapping and scheduling for OpenVX applications on heterogeneous multi/many-core architectures. *IEEE Transactions on Computers*, 70(8): 1148–1159, August 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lee:2022:BMM

[LB22] Doowon Lee and Valeria Bertacco. Bypassing multicore memory bugs with coarse-grained reconfigurable logic. *IEEE Transactions on Computers*, 71(9):2191–2204, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2024:RRF

[LBC24] YongGang Li, Yu Bao, and Yeh-Ching Chung. Randomize the running function when it is disclosed. *IEEE Transactions on Computers*, 73(6): 1516–1530, June 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lv:2024:SDL

[LCC+24] Zhihan Lv, Dongliang Chen, Bin Cao, Houbing Song, and Haibin Lv. Secure deep learning in defense in deep-learning-as-a-service computing systems in digital twins. *IEEE Transactions on Computers*, 73(3):656–668, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lien:2022:EER

[LCH22] Yi-Han Lien, Yi-Hua Chen, and Po-Chun Huang. Enabling efficient random data insertion/deletion on block-based file systems. *IEEE*

Transactions on Computers, 71(6):1479–1494, June 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lee:2022:PGE

[LCHK22] Hyoeun Lee, Youngjoon Choi, Taeho Han, and Kanghee Kim. Probabilistically guaranteeing end-to-end latencies in autonomous vehicle computing systems. *IEEE Transactions on Computers*, 71(12): 3361–3374, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2021:VWF

[LCHL21] Yong-Gang Li, Yeh-Ching Chung, Kai Hwang, and Yue-Jin Li. Virtual Wall: Filtering rootkit attacks to protect Linux kernel functions. *IEEE Transactions on Computers*, 70(10):1640–1653, October 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2024:DPD

[LCJ+24] Fuliang Li, Songlin Chen, Xingxin Jia, Chengxi Gao, Pengfei Wang, Xingwei Wang, and Jiannong Cao. Distributed program deployment for resource-aware programmable switches. *IEEE Transactions on Computers*, 73(5):1357–1370, May 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2020:SBC

[LCL+20] R. Liu, X. Chen, D. Liu, Y. Ling, W. Wang, Y. Tan, C. Xiao, C. Yang, R. Zhang, and L. Liang. Separable binary convolutional neural network on embedded systems. *IEEE Transactions on Computers*, 69(10):1474–1486, October 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2021:ZDF

[LCX21] Guoxi Li, Wenzhi Chen, and Yang Xiang. Zweilous: A decoupled and flexible memory management framework. *IEEE Transactions on Computers*, 70(9):1350–1362, September 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2022:ECB

[LCZ22] Yin Li, Xinyuan Cui, and Yu Zhang. An efficient CRT-based bit-parallel multiplier for special pentanomials. *IEEE Transactions on Computers*, 71(3):736–742, March 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2022:ECP

[LD22] Borui Li and Wei Dong. Edge-centric programming for IoT applications with automatic

code partitioning. *IEEE Transactions on Computers*, 71(10):2408–2422, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2024:HOK

[LDF+24] Junyi Liu, Aleksandar Dragojevi , Shane Fleming, Antonios Katsarakis, Dario Korolija, Igor Zablotchi, Ho-Cheung Ng, Anuj Kalia, and Miguel Castro. Honeycomb: Ordered key–value store acceleration on an FPGA-based SmartNIC. *IEEE Transactions on Computers*, 73(3): 857–871, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2022:ELS

[LDG+22] Yuxuan Li, Xiaohui Duan, Lin Gan, Wubing Wan, Yuhu Chen, Kai Xu, Jinzhe Yang, Weiguo Liu, Wei Xue, Haohuan Fu, and Guangwen Yang. Enabling large-scale simulation of CAM on the Sunway TaihuLight supercomputer. *IEEE Transactions on Computers*, 71(4):824–837, April 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2022:HMB

[LDLK22] Cunlu Li, Dezun Dong, Xiangke Liao, and John Kim. Hybrid memory buffer microarchitecture for high-radix routers. *IEEE Transactions on Computers*, 71(11):2888–2902, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2023:TTA

[LDZ+23] Jie Li, Yuhui Deng, Yi Zhou, Zhen Zhang, Geyong Min, and Xiao Qin. Towards thermal-aware workload distribution in cloud data centers based on failure models. *IEEE Transactions on Computers*, 72(2): 586–599, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lurbe:2022:DDL

[LFP+22] Manel Lurbe, Josué Feliu, Salvador Petit, Maria E. Gómez, and Julio Sahuquillo. DeepP: Deep learning multi-program prefetch configuration for the IBM POWER 8. *IEEE Transactions on Computers*, 71(10): 2646–2658, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liao:2021:APM

[LFW21] Zhiheng Liao, Jingyan Fu, and Jinhui Wang. Ameliorate performance of memristor-based ANNs in edge computing. *IEEE Transactions on Computers*, 70(8):1299–1310, August 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lu:2021:EDN

[LFX+21] J. Lu, C. Fang, M. Xu, J. Lin, and Z. Wang. Evaluations on deep neural networks training using posit number system. *IEEE Transactions on Computers*, 70(2):174–187, February 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2022:DSA

[LG22] Congmiao Li and Jean-Luc Gaudiot. Detecting spectre attacks using hardware performance counters. *IEEE Transactions on Computers*, 71(6): 1320–1331, June 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2023:GRD

[LGC+23] Liang Liu, Yanan Guo, Yueqiang Cheng, Youtao Zhang, and Jun Yang. Generating robust DNN with resistance to bit-flip based adversarial weight attack. *IEEE Transactions on Computers*, 72(2): 401–413, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lou:2022:OHT

[LGW+22] Wenqi Lou, Lei Gong, Chao Wang, Zidong Du, and Xuehai Zhou. OctCNN: a high throughput FPGA accelerator for CNNs using Octave convolution algorithm. *IEEE Transactions on Computers*, 71(8): 1847–1859, August 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2022:ECT

[LGX+22] Chunchi Liu, Hechuan Guo, Minghui Xu, Shengling Wang, Dongxiao Yu, Jiguo Yu, and Xiuzhen Cheng. Extending on-chain trust to off-chain trustworthy blockchain data collection using trusted execution environment (TEE). *IEEE Transactions on Computers*, 71(12):3268–3280, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2024:PPD

[LHFW24] Luyi Li, Jiayi Huang, Lang Feng, and Zhongfeng Wang. Prefender: a prefetching defender against cache side channel attacks as a pretender. *IEEE Transactions on Computers*, 73(6):1457–1471, June 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lee:2022:FSM

[LHK+22] Sunjung Lee, Seunghwan Hwang, Michael Jaemin Kim, Jaewan Choi, and Jung Ho Ahn. Future scaling of memory hierarchy for tensor cores and eliminating redundant shared memory traffic using inter-warp multicasting. *IEEE*

Transactions on Computers, 71(12):3115–3126, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2021:CSC

[LHL+21] Dongsheng Li, Zhiyao Hu, Zhiquan Lai, Yiming Zhang, and Kai Lu. Coordinative scheduling of computation and communication in data-parallel systems. *IEEE Transactions on Computers*, 70(12): 2182–2197, December 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2023:EER

[LHL+23] Qiang Liu, Yuhui Hao, Weizhuang Liu, Bo Yu, Yiming Gan, Jie Tang, Shao-Shan Liu, and Yuhao Zhu. An energy efficient and runtime reconfigurable accelerator for robotic localization. *IEEE Transactions on Computers*, 72(7):1943–1957, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2022:BCT

[LHN+22] Dongxiao Liu, Cheng Huang, Jianbing Ni, Xiaodong Lin, and Xuemin Sherman Shen. Blockchain-cloud transparent data marketing: Consortium management and fairness. *IEEE Transactions on Computers*, 71(12):3322–3335, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2022:ESS

[LHR+22] Jingwei Li, Suyu Huang, Yanjing Ren, Zuoru Yang, Patrick P. C. Lee, Xiaosong Zhang, and Yao Hao. Enabling secure and space-efficient metadata management in encrypted deduplication. *IEEE Transactions on Computers*, 71(4): 959–970, April 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2023:BBD

[LHR+23] Yizhi Liu, Xiaohan Hao, Wei Ren, Ruoting Xiong, Tianqing Zhu, Kim-Kwang Raymond Choo, and Geyong Min. A blockchain-based decentralized, fair and authenticated information sharing scheme in zero trust Internet-of-Things. *IEEE Transactions on Computers*, 72(2):501–512, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lin:2021:NMN

[LHW+21] Limei Lin, Yanze Huang, Dajin Wang, Sun-Yuan Hsieh, and Li Xu. A novel measurement for network reliability. *IEEE Transactions on Computers*, 70(10):1719–1731, October 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lin:2022:BAM

[LHXH22] Limei Lin, Yanze Huang, Li Xu, and Sun-Yuan Hsieh. Better adaptive malicious users detection algorithm in human contact networks. *IEEE Transactions on Computers*, 71(11):2968–2981, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2021:LFD

[LHY+21] Jianghua Liu, Jingyu Hou, Wenjie Yang, Yang Xiang, Wanlei Zhou, Wei Wu, and Xinyi Huang. Leakage-free dissemination of authenticated tree-structured data with multi-party control. *IEEE Transactions on Computers*, 70(7):1120–1131, July 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lee:2021:RTS

[LJY21] D. Lee, H. Jung, and H. Yang. Real-time schedulability analysis and enhancement of transiently powered processors with NVMs. *IEEE Transactions on Computers*, 70(3): 372–383, March 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2024:CBL

[LJY+24] Haikun Liu, Xiaozhong Jin, Chencheng Ye, Xiaofei Liao, Hai Jin, and Yu Zhang. I/O causality based in-line data deduplication for non-volatile memory enabled storage systems. *IEEE Transactions on Computers*, 73(5):1327–1340, May 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lee:2021:IBP

[LKK+21] H. Lee, H. Kim, C. Kim, H. Han, and E. Seo. Idempotence-based preemptive GPU kernel scheduling for embedded systems. *IEEE Transactions on Computers*, 70(3): 332–346, March 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Longofono:2021:CTR

[LKMJ21] Stephen Longofono, Donald Kline, Rami Melhem, and Alex K. Jones. A CASTLE with TOWERs for reliable, secure phase-change memory. *IEEE Transactions on Computers*, 70(9):1311–1324, September 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2021:ACG

[LL21] Xianfeng Li and Gengchao Li. An adaptive CPU–GPU governing framework for mobile games on big.LITTLE architectures. *IEEE Transactions on Computers*, 70(9): 1472–1483, September 2021. CODEN ITCOB4. ISSN 0018-

9340 (print), 1557-9956 (electronic).

Lee:2022:PMF

[LL22] Jaewoo Lee and Jinkyu Lee. `MC-FLEX`: Flexible mixed-criticality real-time scheduling by task-level mode switch. *IEEE Transactions on Computers*, 71(8):1889–1902, August 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lin:2023:TPB

[LL23] Jin-Yi Lin and Shu-Yen Lin. Temperature-prediction based rate-adjusted time and space mapping algorithm for 3D CNN accelerator systems. *IEEE Transactions on Computers*, 72(10):2767–2780, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lin:2024:CCD

[LLC+24] Zhiyong Lin, Hai Liu, Xiaowen Chu, Yiu-Wing Leung, and Ivan Stojmenovic. Constructing connected-dominating-set with maximum lifetime in cognitive radio networks. *IEEE Transactions on Computers*, 73(4):1165–1179, April 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lin:2023:CMC

[LLCJ23] Wanling Lin, Xiao-Yan Li, Jou-Ming Chang, and Xiaohua Jia. Constructing multiple CISTs on BCube-based data center networks in the occurrence of switch failures. *IEEE Transactions on Computers*, 72(7):1971–1984, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2023:DSE

[LLFT23] He Li, Jiawei Liang, Hongxiang Fan, and Yongming Tang. Design space exploration for efficient quantum most-significant digit-first arithmetic. *IEEE Transactions on Computers*, 72(6): 1822–1829, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2023:CCO

[LLJ+23] Xin Li, Zhi Li, Yaqi Ju, Xiaofei Zhang, Rongyao Wang, and Wei Zhou. COP: a combinational optimization power budgeting method for many-core systems in dark silicon. *IEEE Transactions on Computers*, 72(5):1356–1370, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Luo:2023:SCS

[LLK+23] Xiangzhong Luo, Di Liu, Hao Kong, Shuo Huai, Hui Chen, and Weichen Liu. SurgeNAS: a comprehensive surgery on hardware-aware differentiable neural architecture search. *IEEE Transactions on Com-*

puters, 72(4):1081–1094, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2020:OLM

[LLL+20] H. Liu, R. Liu, X. Liao, H. Jin, B. He, and Y. Zhang. Object-level memory allocation and migration in hybrid memory systems. *IEEE Transactions on Computers*, 69(9): 1401–1413, September 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2023:LIC

[LLL+23] Yida Li, Huizhang Luo, Fenfang Li, Junqi Wang, and Kenli Li. LAMP: Improving compression ratio for AMR applications via level associated mapping-based preconditioning. *IEEE Transactions on Computers*, 72(12):3370–3382, December 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2022:BEP

[LLS+22] Jizhao Liu, Jing Lian, Julien Clinton Sprott, Qidong Liu, and Yide Ma. The butterfly effect in primary visual cortex. *IEEE Transactions on Computers*, 71(11):2803–2815, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lee:2023:MDB

[LLS+23] Hyokeun Lee, Seungyong Lee, Byeongki Song, Moonsoo Kim, Seokbo Shim, Hyuk-Jae Lee, and Hyun Kim. An in-module disturbance barrier for mitigating write disturbance in phase-change memory. *IEEE Transactions on Computers*, 72(4):1150–1162, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2023:BEB

[LLT+23] Shipeng Li, Jingwei Li, Yuxing Tang, Xiapu Luo, Zheyuan He, Zihao Li, Xi Cheng, Yang Bai, Ting Chen, Yuzhe Tang, Zhe Liu, and Xiaosong Zhang. BlockExplorer: Exploring blockchain big data via parallel processing. *IEEE Transactions on Computers*, 72(8): 2377–2389, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lin:2023:FPK

[LLWZ23] Kaizhan Lin, Jianming Lin, Weize Wang, and Chang-An Zhao. Faster public-key compression of SIDH with less memory. *IEEE Transactions on Computers*, 72(9):2668–2676, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liang:2024:QPA

[LLX+24a] Wei Liang, Yuhui Li, Jianlong Xu, Zheng Qin, Dafang Zhang, and Kuan-Ching Li. QoS prediction and adversarial attack protection for distributed services under DLaaS. *IEEE Transactions on Computers*, 73(3): 669–682, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2024:RCH

[LLX+24b] Yu Liu, Qi Luo, Mengbai Xiao, Dongxiao Yu, Huashan Chen, and Xiuzhen Cheng. Reordering and compression for hypergraph processing. *IEEE Transactions on Computers*, 73(6):1486–1499, June 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Luo:2022:FBV

[LLY22] Yandong Luo, Yuan-Chun Luo, and Shimeng Yu. A ferroelectric-based Volatile/Non-Volatile dual-mode buffer memory for deep neural network accelerators. *IEEE Transactions on Computers*, 71(9):2088–2101, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lyu:2021:SCT

[LM21] Yangdi Lyu and Prabhat Mishra. Scalable concolic testing of RTL models. *IEEE Transactions on Computers*, 70(7):979–991, July 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2021:DSI

[LMDC21] He Li, Ian McInerney, James J. Davis, and George A. Constantinides. Digit stability inference for iterative methods using redundant number representation. *IEEE Transactions on Computers*, 70(7): 1074–1080, July 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2022:DDV

[LMM+22] Yingying Li, Jianfeng Ma, Yinbin Miao, Huizhong Li, Qiang Yan, Yue Wang, Ximeng Liu, and Kim-Kwang Raymond Choo. DVREI: Dynamic verifiable retrieval over encrypted images. *IEEE Transactions on Computers*, 71(8):1755–1769, August 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liang:2023:PPB

[LMM+23] Yanrong Liang, Jianfeng Ma, Yinbin Miao, Da Kuang, Xiangdong Meng, and Robert H. Deng. Privacy-preserving Bloom filter-based keyword search over large encrypted cloud data. *IEEE Transactions on Computers*, 72(11): 3086–3098, November 2023.

CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2024:HHA

[LMW+24] Hongyi Li, Songchen Ma, Taoyi Wang, Weihao Zhang, Guanrui Wang, Chenhang Song, Huanyu Qu, Junfeng Lin, Cheng Ma, Jing Pei, and Rong Zhao. HASP: Hierarchical asynchronous parallelism for multi-NN tasks. *IEEE Transactions on Computers*, 73(2):366–379, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Louri:2020:SJ

[Lou20] A. Louri. State of the journal. *IEEE Transactions on Computers*, 69(4):466–467, April 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lima:2021:PHD

[LPC+21] F. D. S. Lima, F. L. F. Pereira, I. C. Chaves, J. C. Machado, and J. P. P. Gomes. Predicting the health degree of hard disk drives with asymmetric and ordinal deep neural models. *IEEE Transactions on Computers*, 70(2):188–198, February 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liang:2021:RAE

[LPD+21] Y. Liang, R. Pan, Y. Du, C. Fu, L. Shi, T.-W. Kuo, and C. J. Xue. Read-ahead efficiency on mobile devices: Observation, characterization, and optimization. *IEEE Transactions on Computers*, 70(1):99–110, January 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2020:XSI

[LPW20] Z. Li, B. Peng, and C. Weng. XeFlow: Streamlining inter-processor pipeline execution for the discrete CPU–GPU platform. *IEEE Transactions on Computers*, 69(6):819–831, June 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2022:DSA

[LQC+22] Liu Liu, Zheng Qu, Zhaodong Chen, Fengbin Tu, Yufei Ding, and Yuan Xie. Dynamic sparse attention for scalable transformer acceleration. *IEEE Transactions on Computers*, 71(12):3165–3178, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liang:2021:PSS

[LQN+21] Jinwen Liang, Zheng Qin, Jianbing Ni, Xiaodong Lin, and Xuemin Shen. Practical and secure SVM classification for cloud-based remote clinical decision services. *IEEE Transactions on Computers*, 70(10): 1612–1625, October 2021. CODEN ITCOB4. ISSN 0018-

9340 (print), 1557-9956 (electronic).

Liu:2020:BBA

[LQY+20] Q. Liu, S. Qin, B. Yu, J. Tang, and S. Liu. π-BA: Bundle adjustment hardware accelerator based on distribution of 3D-point observations. *IEEE Transactions on Computers*, 69(7):1083–1095, July 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2022:IBC

[LR22] Jian Liu and Kui Ren. Improving blockchains with client-assistance. *IEEE Transactions on Computers*, 71(5): 1230–1236, May 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Libano:2023:EED

[LRB23] Fabiano Libano, Paolo Rech, and John Brunhaver. Efficient error detection for matrix multiplication with systolic arrays on FPGAs. *IEEE Transactions on Computers*, 72(8): 2390–2403, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2022:SNR

[LRL22] Shanshan Liu, Pedro Reviriego, and Fabrizio Lombardi. Selective neuron re-computation (SNRC) for error-tolerant neural networks. *IEEE Transactions on Computers*, 71(3):684–695, March 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lopez-Randulfe:2022:TCS

[LRRK+22] Javier López-Randulfe, Nico Reeb, Negin Karimi, Chen Liu, Hector A. Gonzalez, Robin Dietrich, Bernhard Vogginger, Christian Mayr, and Alois Knoll. Time-coded spiking Fourier transform in neuromorphic hardware. *IEEE Transactions on Computers*, 71(11):2792–2802, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2020:EAE

[LSCX20] Q. Li, L. Shi, Y. Cui, and C. J. Xue. Exploiting asymmetric errors for LDPC decoding optimization on 3D NAND flash memory. *IEEE Transactions on Computers*, 69(4):475–488, April 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lin:2023:TAF

[LSU+23] Ching-Chi Lin, Junjie Shi, Niklas Ueter, Mario Günzel, Jan Reineke, and Jian-Jia Chen. Type-aware federated scheduling for typed DAG tasks on heterogeneous multicore platforms. *IEEE Trans-*

actions on Computers, 72(5): 1286–1300, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2023:CHR

[LSW+23] Zixuan Liu, Xiaoyu Song, Zhuowei Wang, Yan Wang, and Jian-Tao Zhou. Constructing high radix quotient digit selection tables for SRT division and square root. *IEEE Transactions on Computers*, 72(7):2111–2119, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lv:2021:ERA

[LSXZ21] M. Lv, H. Sun, J. Xin, and N. Zheng. Efficient repair analysis algorithm exploration for memory with redundancy and in-memory ECC. *IEEE Transactions on Computers*, 70(5):775–788, May 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2022:GSG

[LTFL22] Chengqing Li, Kai Tan, Bingbing Feng, and Jinhu Lü. The graph structure of the generalized discrete Arnold's cat map. *IEEE Transactions on Computers*, 71(2):364–377, February 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lloret-Talavera:2022:EHE

[LTJS+22] Guillermo Lloret-Talavera, Marc Jorda, Harald Servat, Fabian Boemer, Chetan Chauhan, Shigeki Tomishima, Nilesh N. Shah, and Antonio J. Peña. Enabling homomorphically encrypted inference for large DNN models. *IEEE Transactions on Computers*, 71(5):1145–1155, May 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lu:2021:GEI

[Lu21] Zhonghai Lu. Guest editorial: *IEEE TC* Special Issue On Communications for Many-core Processors and Accelerators. *IEEE Transactions on Computers*, 70(6):817–818, June 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2023:TLS

[LV23] Qingyue Liu and Peter Varman. Telepathy: a lightweight silent data access protocol for NVRAM+RDMA enabled distributed storage. *IEEE Transactions on Computers*, 72(3):839–852, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lin:2022:RHD

[LW22] Dave Y.-W. Lin and Charles H.-P. Wen. Rad-hard designs by automated latching-

delay assignment and time-borrowable D-flip-flop. *IEEE Transactions on Computers*, 71(5):1008–1020, May 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liang:2022:MOM

[LWC+22] Xin Liang, Ben Whitney, Jieyang Chen, Lipeng Wan, Qing Liu, Dingwen Tao, James Kress, David Pugmire, Matthew Wolf, Norbert Podhorszki, and Scott Klasky. MGARD+: Optimizing multilevel methods for error-bounded scientific data reduction. *IEEE Transactions on Computers*, 71(7): 1522–1536, July 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lunglmayr:2020:DAE

[LWH20] M. Lunglmayr, D. Wiesinger, and W. Haselmayr. Design and analysis of efficient maximum/minimum circuits for stochastic computing. *IEEE Transactions on Computers*, 69(3):402–409, March 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2024:NND

[LWH+24] Shiyu Li, Yitu Wang, Edward Hanson, Andrew Chang, Yang Seok Ki, Hai Li, and Yiran Chen. NDRec: a near-data processing system for training large-scale recommendation models. *IEEE Transactions on Computers*, 73(5):1248–1261, May 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liang:2021:EHT

[LWL+21] Shengwen Liang, Ying Wang, Cheng Liu, Lei He, Huawei Li, Dawen Xu, and Xiaowei Li. EnGN: A high-throughput and energy-efficient accelerator for large graph neural networks. *IEEE Transactions on Computers*, 70(9): 1511–1525, September 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2022:RLB

[LWL+22] Yusen Li, Xiwei Wang, Haoyuan Liu, Lingjun Pu, Shanjiang Tang, Gang Wang, and Xiaoguang Liu. Reinforcement learning-based resource partitioning for improving responsiveness in cloud gaming. *IEEE Transactions on Computers*, 71(5):1049–1062, May 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2023:LFP

[LWL+23] Wen Li, Ying Wang, Cheng Liu, Yintao He, Lian Liu, Huawei Li, and Xiaowei Li. On-line fault protection for ReRAM-based neural networks. *IEEE Transactions*

on Computers, 72(2):423–437, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lao:2022:BCS

[LWNC22] Bin Lao, Yi Wu, Ge Nong, and Wai Hong Chan. Building and checking suffix array simultaneously by induced sorting method. *IEEE Transactions on Computers*, 71(4):756–765, April 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lv:2023:FDD

[LWYJ23] Xianwei Lv, Qianqian Wang, Chen Yu, and Hai Jin. A feedback-driven DNN inference acceleration system for edge-assisted video analytics. *IEEE Transactions on Computers*, 72(10):2902–2912, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2023:AAA

[LXW+23] Juan Liu, Guoqing Xiao, Fan Wu, Xiangke Liao, and Kenli Li. AAPP: an accelerative and adaptive path planner for robots on GPU. *IEEE Transactions on Computers*, 72(8):2336–2349, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Luo:2020:ADN

[LY20] Y. Luo and S. Yu. Accelerating deep neural network in-situ training with non-volatile and volatile memory based hybrid precision synapses. *IEEE Transactions on Computers*, 69(8):1113–1127, August 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Luo:2021:AAC

[LY21] Yandong Luo and Shimeng Yu. AILC: Accelerate on-chip incremental learning with compute-in-memory technology. *IEEE Transactions on Computers*, 70(8):1225–1238, August 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liang:2022:PMM

[LYC22] Yuhong Liang, Ming-Chang Yang, and Shuo-Han Chen. `MAGIC`: Making IMR-based HDD perform like CMR-based HDD. *IEEE Transactions on Computers*, 71(3):643–657, March 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Luo:2023:ETM

[LYC+23] Qi Luo, Dongxiao Yu, Xiuzhen Cheng, Hao Sheng, and Weifeng Lyu. Exploring truss maintenance in fully dynamic

graphs: a mixed structure-based approach. *IEEE Transactions on Computers*, 72(3): 707–718, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2022:RTT

[LYF+22] Shengzhong Liu, Shuochao Yao, Xinzhe Fu, Huajie Shao, Rohan Tabish, Simon Yu, Ayoosh Bansal, Heechul Yun, Lui Sha, and Tarek Abdelzaher. Real-time task scheduling for machine perception in intelligent cyber-physical systems. *IEEE Transactions on Computers*, 71(8):1770–1783, August 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Lin:2024:DTO

[LYGC24] Hongcai Lin, Lei Yang, Hao Guo, and Jiannong Cao. Decentralized task offloading in edge computing: An offline-to-online reinforcement learning approach. *IEEE Transactions on Computers*, 73(6): 1603–1615, June 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2024:HHP

[LYH+24] Bihui Liu, Zhenyu Ye, Qiao Hu, Yupeng Hu, Yuchong Hu, Yang Xu, and Keqin Li. HPDK: a hybrid PM-DRAM key–value store for high I/O throughput. *IEEE Transactions on Computers*, 73(6): 1575–1587, June 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2023:LAS

[LYW+23] Jianghua Liu, Jian Yang, Wei Wu, Xinyi Huang, and Yang Xiang. Lightweight authentication scheme for data dissemination in cloud-assisted healthcare IoT. *IEEE Transactions on Computers*, 72(5): 1384–1395, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2021:PLS

[LZC+21] X. Li, M. Zhang, K. Chen, Y. Wu, X. Qian, and W. Zheng. 3-*D* partitioning for large-scale graph processing. *IEEE Transactions on Computers*, 70(1):111–127, January 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Luo:2024:CLR

[LZC+24] Chuanwen Luo, Jian Zhang, XiaoLu Cheng, Yi Hong, Zhibo Chen, and Xiaoshuang Xing. Computation offloading in resource-constrained edge computing systems based on deep reinforcement learning. *IEEE Transactions on Computers*, 73(1):109–122, January 2024. CODEN ITCOB4. ISSN 0018-

9340 (print), 1557-9956 (electronic).

Li:2021:QMB

[LZF21] Sanjiang Li, Xiangzhen Zhou, and Yuan Feng. Qubit mapping based on subgraph isomorphism and filtered depth-limited search. *IEEE Transactions on Computers*, 70(11): 1777–1788, November 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2024:BBP

[LZS+24] Shiyu Li, Yuan Zhang, Yaqing Song, Nan Cheng, Kan Yang, and Hongwei Li. Blockchain-based portable authenticated data transmission for mobile edge computing: a universally composable secure solution. *IEEE Transactions on Computers*, 73(4):1114–1125, April 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Li:2021:LBM

[LZW+21] L. Li, J. Zhou, T. Wei, M. Chen, and X. S. Hu. Learning-based modeling and optimization for real-time system availability. *IEEE Transactions on Computers*, 70(4): 581–594, April 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2023:DDH

[LZW23a] Song Liu, Zengyuan Zhang, and Weiguo Wu. DHTS: a dynamic hybrid tiling strategy for optimizing stencil computation on GPUs. *IEEE Transactions on Computers*, 72(10): 2795–2807, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liu:2023:HPT

[LZW+23b] Xiao-Yang Liu, Zeliang Zhang, Zhiyuan Wang, Han Lu, Xiaodong Wang, and Anwar Walid. High-performance tensor learning primitives using GPU tensor cores. *IEEE Transactions on Computers*, 72(6):1733–1746, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Liao:2022:SAS

[LZZ+22] Xiaofei Liao, Jin Zhao, Yu Zhang, Bingsheng He, Ligang He, Hai Jin, and Lin Gu. A structure-aware storage optimization for out-of-core concurrent graph processing. *IEEE Transactions on Computers*, 71(7):1612–1625, July 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Morais:2024:EHB

[MÁJG+24] Lucas Morais, Carlos Álvarez, Daniel Jiménez-González, Juan Miguel de Haro, Guido Araujo,

Michael Frank, Alfredo Goldman, and Xavier Martorell. Enabling HW-based task scheduling in large multicore architectures. *IEEE Transactions on Computers*, 73(1): 138–151, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Manocha:2023:GSF

[MAM23] Aninda Manocha, Juan L. Aragón, and Margaret Martonosi. Graphfire: Synergizing fetch, insertion, and replacement policies for graph analytics. *IEEE Transactions on Computers*, 72(1):291–304, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

McCrabb:2021:OVP

[MB21] Andrew McCrabb and Valeria Bertacco. Optimizing vertex pressure dynamic graph partitioning in many-core systems. *IEEE Transactions on Computers*, 70(6):936–949, June 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Medina:2021:GMC

[MBP21] R. Medina, E. Borde, and L. Pautet. Generalized mixed-criticality static scheduling for periodic directed acyclic graphs on multi-core processors. *IEEE Transactions on Computers*, 70(3): 457–470, March 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Mohamed:2023:UPC

[MC23] Nadya A. Mohamed and Joseph R. Cavallaro. A unified parallel CORDIC-based hardware architecture for LSTM network acceleration. *IEEE Transactions on Computers*, 72(10):2752–2766, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Minutoli:2022:PSH

[MCS+22] Marco Minutoli, Vito Giovanni Castellana, Nicola Saporetti, Stefano Devecchi, Marco Lattuada, Pietro Fezzardi, Antonino Tumeo, and Fabrizio Ferrandi. `Svelto`: High-level synthesis of multi-threaded accelerators for graph analytics. *IEEE Transactions on Computers*, 71(3): 520–533, March 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Makovenko:2022:ROC

[MCT22] Mykyta Makovenko, Min Cheng, and Chao Tian. Revisiting the optimization of Cauchy Reed–Solomon coding matrix for fault-tolerant data storage. *IEEE Transactions on Computers*, 71(8): 1839–1846, August 2022. CODEN ITCOB4. ISSN 0018-

9340 (print), 1557-9956 (electronic).

Mehrabi:2020:ECC

[MDJ20] M. A. Mehrabi, C. Doche, and A. Jolfaei. Elliptic curve cryptography point multiplication core for hardware security module. *IEEE Transactions on Computers*, 69(11): 1707–1718, November 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Mukherjee:2022:TPB

[MDM22] Anandarup Mukherjee, Pallav Kumar Deb, and Sudip Misra. Tremors: Privacy-breaching inference of computing tasks using vibration-based condition monitors. *IEEE Transactions on Computers*, 71(10): 2620–2631, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Mallasen:2024:BPE

[MDPM24] David Mallasén, Alberto A. Del Barrio, and Manuel Prieto-Matias. Big-PERCIVAL: Exploring the native use of 64-bit posit arithmetic in scientific computing. *IEEE Transactions on Computers*, 73(6): 1472–1485, June 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Mondal:2024:IFA

[MDR+24] Sandip Kumar Mondal, Prakash Dey, Himadry Sekhar Roy, Avishek Adhikari, and Subhamoy Maitra. Improved fault analysis on Subterranean 2.0. *IEEE Transactions on Computers*, 73(6):1631–1639, June 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Moran:2020:EEP

[MFRR20] A. Morán, C. F. Frasser, M. Roca, and J. L. Rosselló. Energy-efficient pattern recognition hardware with elementary cellular automata. *IEEE Transactions on Computers*, 69(3):392–401, March 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Mohammadi:2020:EED

[MHA+20] M. Mohammadi, S. Han, E. Atoofian, A. Baniasadi, T. M. Aamodt, and W. J. Dally. Energy efficient on-demand dynamic branch prediction models. *IEEE Transactions on Computers*, 69(3): 453–465, March 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Mahmud:2022:QDR

[MHDMEA22] Naveed Mahmud, Bennett Haase-Divine, Andrew MacGillivray, and Esam El-Araby. Quantum dimension reduction

for pattern recognition in high-resolution spatio-spectral data. *IEEE Transactions on Computers*, 71(1):1–12, January 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Mei:2021:ZEJ

[MHJ+21] Linyan Mei, Pouya Houshmand, Vikram Jain, Sebastian Giraldo, and Marian Verhelst. ZigZag: Enlarging joint architecture-mapping design space exploration for DNN accelerators. *IEEE Transactions on Computers*, 70(8): 1160–1174, August 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Multanen:2022:EEI

[MHK+22] Joonas Multanen, Kari Hepola, Asif Ali Khan, Jeronimo Castrillon, and Pekka Jääskeläinen. Energy-efficient instruction delivery in embedded systems with domain wall memory. *IEEE Transactions on Computers*, 71(9): 2010–2021, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Mills:2023:AFL

[MHM+23] Jed Mills, Jia Hu, Geyong Min, Rui Jin, Siwei Zheng, and Jin Wang. Accelerating federated learning with a global biased optimiser. *IEEE Transactions on Computers*, 72(6):1804–1814, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Meng:2020:BSC

[MHS+20] D. Meng, R. Hou, G. Shi, B. Tu, A. Yu, Z. Zhu, X. Jia, Y. Wen, and Y. Yang. Built-in security computer: Deploying security-first architecture using active security processor. *IEEE Transactions on Computers*, 69(11):1571–1583, November 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Mikaitis:2024:MMT

[Mik24] Mantas Mikaitis. Monotonicity of multi-term floating-point adders. *IEEE Transactions on Computers*, 73(6): 1531–1543, June 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Marotta:2022:NNB

[MIPQ22] Romolo Marotta, Mauro Ianni, Alessandro Pellegrini, and Francesco Quaglia. NBBS: A non-blocking buddy system for multi-core machines. *IEEE Transactions on Computers*, 71(3):599–612, March 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Miwa:2020:FBD

[MIY+20] S. Miwa, M. Ishihara, H. Yamaki, H. Honda, and M. Schulz. Footprint-based DIMM hotplug. *IEEE Transactions on Computers*, 69(2):172–184, February 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Majumder:2021:RCS

[MKH+21] Pritam Majumder, Sungkeun Kim, Jiayi Huang, Ki Hwan Yum, and Eun Jung Kim. Remote control: A simple deadlock avoidance scheme for modular systems-on-chip. *IEEE Transactions on Computers*, 70(11):1928–1941, November 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Mert:2022:ESF

[MKÖ+22] Ahmet Can Mert, Emre Karabulut, Erdinç Öztürk, Erkay Savaş, and Aydin Aysu. An extensive study of flexible design methods for the number theoretic transform. *IEEE Transactions on Computers*, 71(11):2829–2843, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ma:2024:SDG

[MKY+24] Lianbo Ma, Haidong Kang, Guo Yu, Qing Li, and Qiang He. Single-domain generalized predictor for neural architecture search system. *IEEE Transactions on Computers*, 73(5):1400–1413, May 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Myung:2021:ESE

[MKYP21] Kihyeon Myung, Sunggon Kim, Heon Young Yeom, and Jiwoong Park. Efficient and scalable external sort framework for NVMe SSD. *IEEE Transactions on Computers*, 70(12):2211–2217, December 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ma:2024:GGF

[MLL+24] Liyuan Ma, Xiulong Liu, Yuhan Li, Chenyu Zhang, Gaowei Shi, and Keqiu Li. GFBE: a generalized and fine-grained blockchain evaluation framework. *IEEE Transactions on Computers*, 73(3): 942–955, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Mu:2023:HHA

[MLW+23] Pengyu Mu, Yi Liu, Rui Wang, Guoxiang Liu, Zhonghao Sun, Hailong Yang, Zhongzhi Luan, and Depei Qian. HAOTuner: a hardware adaptive operator autotuner for dynamic shape tensor compilers. *IEEE Transactions on Computers*, 72(11): 3178–3190, November 2023.

CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Majumder:2020:PRT

[MNB20] S. Majumder, J. F. D. Nielsen, and T. Bak. PaRTAA: A real-time multiprocessor for mixed-criticality airborne systems. *IEEE Transactions on Computers*, 69(8):1221–1232, August 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Mert:2022:LLA

[MÖS22] Ahmet Can Mert, Erdinç Öztürk, and Erkay Savaş. Low-latency ASIC algorithms of modular squaring of large integers for VDF evaluation. *IEEE Transactions on Computers*, 71(1):107–120, January 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Minaeva:2021:CPO

[MRA+21] Anna Minaeva, Debayan Roy, Benny Akesson, Zdenêk Hanzálek, and Samarjit Chakraborty. Control performance optimization for application integration on automotive architectures. *IEEE Transactions on Computers*, 70(7): 1059–1073, July 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Mao:2024:JVN

[MSLY24] Yingling Mao, Xiaojun Shang, Yu Liu, and Yuanyuan Yang. Joint virtual network function placement and flow routing in edge-cloud continuum. *IEEE Transactions on Computers*, 73(3):872–886, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Menshchikov:2021:RTD

[MSP+21] Alexander Menshchikov, Dmitrii Shadrin, Viktor Prutyanov, Daniil Lopatkin, Sergey Sosnin, Evgeny Tsykunov, Evgeny Iakovlev, and Andrey Somov. Real-time detection of hogweed: UAV platform empowered by deep learning. *IEEE Transactions on Computers*, 70(8):1175–1188, August 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Mao:2021:LCE

[MSSL21] Haiyu Mao, Jiwu Shu, Mingcong Song, and Tao Li. Lr-GAN: A compact and energy efficient PIM-based architecture for GAN training. *IEEE Transactions on Computers*, 70(9):1427–1442, September 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ma:2021:TAR

[MSW+21] C. Ma, Z. Shen, J. Wang, Y. Wang, R. Chen, Y. Guan,

and Z. Shao. Tiler: An autonomous region-based scheme for SMR storage. *IEEE Transactions on Computers*, 70(2): 291–304, February 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Mottaghi:2022:FFI

[MSZ22] Mohammad Hadi Mottaghi, Mehdi Sedighi, and Morteza Saheb Zamani. FIFA: a fully invertible FPGA architecture to reduce BTI-induced aging effects. *IEEE Transactions on Computers*, 71(9):2277–2286, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Mukhanov:2021:RDO

[MTV+21] Lev Mukhanov, Konstantinos Tovletoglou, Hans Vandierendonck, Dimitrios S. Nikolopoulos, and Georgios Karakonstantis. Revealing DRAM operating GuardBands through workload-aware error predictive modeling. *IEEE Transactions on Computers*, 70(11): 1976–1987, November 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Mo:2024:LEF

[MWJ+24] Hai Mo, Yong Wu, Honglan Jiang, Zining Ma, Fabrizio Lombardi, Jie Han, and Leibo Liu. Learning the error features of approximate multipliers for neural network applications. *IEEE Transactions on Computers*, 73(3): 842–856, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ma:2023:MEP

[MXY+23] Tengchao Ma, Changqiao Xu, Shujie Yang, Yiting Huang, Qingzhao An, Xiaohui Kuang, and Luigi Alfredo Grieco. A mutation-enabled proactive defense against service-oriented man-in-the-middle attack in Kubernetes. *IEEE Transactions on Computers*, 72(7):1843–1856, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Mandal:2020:AEI

[MYGA20] K. Mandal, B. Yang, G. Gong, and M. Aagaard. Analysis and efficient implementations of a class of composited de Bruijn sequences. *IEEE Transactions on Computers*, 69(12):1835–1848, December 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Mizutani:2021:OLF

[MYUK21] Kenji Mizutani, Hiroshi Yamaguchi, Yutaka Urino, and Michihiro Koibuchi. OPTWEB: A lightweight fully connected inter-FPGA network for efficient collectives. *IEEE Transactions on Computers*, 70(6):

849–862, June 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Mi:2022:GFI

[MZZC22] Zeyu Mi, Haoqi Zhuang, Binyu Zang, and Haibo Chen. General and fast inter-process communication via bypassing privileged software. *IEEE Transactions on Computers*, 71(10):2435–2448, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Nabeel:2020:RTS

[NAP+20] M. Nabeel, M. Ashraf, S. Patnaik, V. Soteriou, O. Sinanoğlu, and J. Knechtel. 2.5D root of trust: Secure system-level integration of untrusted chiplets. *IEEE Transactions on Computers*, 69(11):1611–1625, November 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Niu:2024:GBA

[NHW+24] Xin Niu, Yajing Huang, Zhiwei Wang, Chen Yu, and Hai Jin. Game-based adaptive FLOPs and partition point decision mechanism with latency and energy-efficient tradeoff for edge intelligence. *IEEE Transactions on Computers*, 73(4):1099–1113, April 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Nath:2022:SCW

[NK22] Arijit Nath and Hemangee K. Kapoor. SWEL-COFAE: Wear leveling and adaptive encoding assisted compression of frequent words in non-volatile main memories. *IEEE Transactions on Computers*, 71(9): 2263–2276, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Novkin:2024:AQA

[NKA24] Rodion Novkin, Florian Klemme, and Hussam Amrouch. Approximation- and quantization-aware training for graph neural networks. *IEEE Transactions on Computers*, 73(2):599–612, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ni:2023:HHP

[NKeSK+23] Ziying Ni, Ayesha Khalid, Dur e Shahwar Kundi, Máire O Neill, and Weiqiang Liu. HPKA: a high-performance CRYSTALS-Kyber accelerator exploring efficient pipelining. *IEEE Transactions on Computers*, 72(12):3340–3353, December 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Noh:2023:FFD

[NKL+23] Seock-Hwan Noh, Jahyun Koo, Seunghyun Lee, Jongse Park, and Jaeha Kung.

FlexBlock: a flexible DNN training accelerator with multi-mode block floating point support. *IEEE Transactions on Computers*, 72(9): 2522–2535, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Nguyen:2022:EPL

[NM22] Thien Nguyen and Alexander McCaskey. Enabling pulse-level programming, compilation, and execution in XACC. *IEEE Transactions on Computers*, 71(3):547–558, March 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Newell:2020:IBB

[NP20] A. Newell and S. Pupyrev. Improved basic block reordering. *IEEE Transactions on Computers*, 69(12):1784–1794, December 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Nath:2022:EWV

[NS22] Kaushik Nath and Palash Sarkar. Efficient 4-way vectorizations of the Montgomery ladder. *IEEE Transactions on Computers*, 71(3):712–723, March 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Nguyen:2023:DSV

[NT23] Truc Nguyen and My T. Thai. Denial-of-service vulnerability of hash-based transaction sharding: Attack and countermeasure. *IEEE Transactions on Computers*, 72(3): 641–652, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Neves:2021:CAD

[NTR21] N. Neves, P. Tomás, and N. Roma. Compiler-assisted data streaming for regular code structures. *IEEE Transactions on Computers*, 70(3): 483–494, March 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ortega:2023:APS

[OAB+23] Cristobal Ortega, Lluc Alvarez, Alper Buyuktosunoglu, Ramon Bertran, Todd Rosedahl, Pradip Bose, and Miquel Moreto. Adaptive power shifting for power-constrained heterogeneous systems. *IEEE Transactions on Computers*, 72(3):627–640, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ortega:2021:IAH

[OAC+21] C. Ortega, L. Alvarez, M. Casas, R. Bertran, A. Buyuktosunoglu, A. E. Eichenberger, P. Bose, and M. Moretó. In-

telligent adaptation of hardware knobs for improving performance and power consumption. *IEEE Transactions on Computers*, 70(1):1–16, January 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Oh:2023:RDP

[OAK+23] Byoungchan Oh, Nilmini Abeyratne, Nam Sung Kim, Jeongseob Ahn, Ronald G. Dreslinski, and Trevor Mudge. Rethinking DRAM's page mode with STT-MRAM. *IEEE Transactions on Computers*, 72(5):1503–1517, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ojha:2023:PCS

[OD23] Divya Ojha and Sandhya Dwarkadas. Preventing coherence state side channel leaks using TimeCache. *IEEE Transactions on Computers*, 72(2):374–385, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Omar:2020:OSC

[ODK20] H. Omar, B. D'Agostino, and O. Khan. OPTIMUS: A security-centric dynamic hardware partitioning scheme for processors that prevent microarchitecture state attacks. *IEEE Transactions on Computers*, 69(11):1558–1570, November 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Owahid:2023:IPB

[OJ23] Abdullah A. Owahid and Eugene B. John. Instruction profiling based predictive throttling for power and performance. *IEEE Transactions on Computers*, 72(12):3532–3545, December 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Oh:2020:POR

[OKC+20] M. Oh, K. Kim, D. Choi, H. Lee, and E. Chung. Per-operation reusability based allocation and migration policy for hybrid cache. *IEEE Transactions on Computers*, 69(2): 158–171, February 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Olivier:2022:SLB

[OLC+22] Pierre Olivier, Hugo Lefeuvre, Daniel Chiba, Stefan Lankes, Changwoo Min, and Binoy Ravindran. A syscall-level binary-compatible unikernel. *IEEE Transactions on Computers*, 71(9):2116–2127, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ollivier:2023:TCS

[OLD+23] Sebastien Ollivier, Stephen Longofono, Prayash Dutta,

Jingtong Hu, Sanjukta Bhanja, and Alex K. Jones. Toward comprehensive shifting fault tolerance for domain-wall memories with PIETT. *IEEE Transactions on Computers*, 72(4):1095–1109, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ou:2020:LDA

[OLZ+20] C. Ou, S.-K. Lam, C. Zhou, G. Jiang, and F. Zhang. A lightweight detection algorithm for collision-optimized divide-and-conquer attacks. *IEEE Transactions on Computers*, 69(11):1694–1706, November 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Oku:2022:HRB

[OTTT22] Daisuke Oku, Masashi Tawada, Shu Tanaka, and Nozomu Togawa. How to reduce the bit-width of an Ising model by adding auxiliary spins. *IEEE Transactions on Computers*, 71(1):223–234, January 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Paim:2022:FCT

[PAR+22] Guilherme Paim, Hussam Amrouch, Leandro M. G. Rocha, Brunno Abreu, Eduardo Antônio César da Costa, Sergio Bampi, and Jörg Henkel. A framework for crossing temperature-induced timing errors underlying hardware accelerators to the algorithm and application layers. *IEEE Transactions on Computers*, 71(2):349–363, February 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Paul:2023:PCC

[PB23a] Shubhra Deb Paul and Swarup Bhunia. `CurIAs`: Current-based IC authentication by exploiting supply current variations. *IEEE Transactions on Computers*, 72(2):466–479, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Prasad:2023:MDP

[PB23b] Ananth Krishna Prasad and Mahdi Nazm Bojnordi. Monarch: a durable polymorphic memory for data intensive applications. *IEEE Transactions on Computers*, 72(2): 535–547, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Papaphilippou:2024:EDA

[PC24] Philippos Papaphilippou and Thiem Van Chu. Efficient deadlock avoidance for 2-D mesh NoCs that use OQ or VOQ routers. *IEEE Transactions on Computers*, 73(5): 1414–1426, May 2024. CODEN ITCOB4. ISSN 0018-

9340 (print), 1557-9956 (electronic).

Pratihar:2023:BSF

[PCA+23] Kuheli Pratihar, Urbi Chatterjee, Manaar Alam, Rajat Subhra Chakraborty, and Debdeep Mukhopadhyay. Birds of the same feather flock together: a dual-mode circuit candidate for strong PUF-TRNG functionalities. *IEEE Transactions on Computers*, 72(6):1636–1651, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Pazzaglia:2023:OIC

[PCBD23] Paolo Pazzaglia, Daniel Casini, Alessandro Biondi, and Marco Di Natale. Optimizing intercore communications under the LET paradigm using DMA engines. *IEEE Transactions on Computers*, 72(1): 127–139, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Park:2022:RCR

[PCCK22] Kangkyu Park, Seungkyu Choi, Yeongjae Choi, and Lee-Sup Kim. Rare computing: Removing redundant multiplications from sparse and repetitive data in deep neural networks. *IEEE Transactions on Computers*, 71(4):795–808, April 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Pagliari:2021:CID

[PCMP21] Daniele Jahier Pagliari, Roberta Chiaro, Enrico Macii, and Massimo Poncino. CRIME: Input-dependent collaborative inference for recurrent neural networks. *IEEE Transactions on Computers*, 70(10): 1626–1639, October 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Patel:2021:SLK

[PD21] Chintan Patel and Nishant Doshi. Secure lightweight key exchange using ECC for user-gateway paradigm. *IEEE Transactions on Computers*, 70(11):1789–1803, November 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Park:2022:WAC

[PE22] Jonggyu Park and Young Ik Eom. Weight-aware cache for application-level proportional I/O sharing. *IEEE Transactions on Computers*, 71(10): 2395–2407, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Picornell:2021:EPM

[PFHD21] T. Picornell, J. Flich, C. Hernández, and J. Duato. Enforcing predictability of many-cores with DCFNoC. *IEEE Transactions on Computers*, 70(2): 270–283, February 2021. CO-

DEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Papadimitriou:2023:SDC

[PG23] George Papadimitriou and Dimitris Gizopoulos. Silent data corruptions: Microarchitectural perspectives. *IEEE Transactions on Computers*, 72(11):3072–3085, November 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Piliposyan:2023:PHT

[PK23] Gor Piliposyan and Saqib Khursheed. PCB hardware Trojan run-time detection through machine learning. *IEEE Transactions on Computers*, 72(7):1958–1970, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Pradhan:2023:MBV

[PKPR23] Ankit Pradhan, Jonathan King, Srinivas Pinisetty, and Partha S. Roop. Model based verification of spiking neural networks in cyber physical systems. *IEEE Transactions on Computers*, 72(9): 2426–2439, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Park:2021:RCR

[PL21] M. C. Park and D. H. Lee. Random CFI (RCFI): Efficient fine-grained control-flow integrity through random verification. *IEEE Transactions on Computers*, 70(5):733–745, May 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Papaphilippou:2022:FFL

[PLB22] Philippos Papaphilippou, Wayne Luk, and Chris Brooks. FLiMS: a fast lightweight 2-way merger for sorting. *IEEE Transactions on Computers*, 71(12):3215–3226, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Phung:2020:LPM

[PLZ20] J. Phung, Y. C. Lee, and A. Y. Zomaya. Lightweight power monitoring framework for virtualized computing environments. *IEEE Transactions on Computers*, 69(1):14–25, January 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Pan:2023:AIN

[PLZ+23] Yuqian Pan, Zhaojun Lu, Haichun Zhang, Haoming Zhang, Md Tanvir Arafin, Zhenglin Liu, and Gang Qu. ADLPT: Improving 3D NAND flash memory reliability by adaptive lifetime prediction techniques. *IEEE Transactions on Computers*, 72(6): 1525–1538, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Park:2020:ISR

[PM20] H. Park and J. Moon. Improving SSD read latency via coding. *IEEE Transactions on Computers*, 69(12):1809–1822, December 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Pogue:2024:FIP

[PN24] Trevor E. Pogue and Nicola Nicolici. Fast inner-product algorithms and architectures for deep neural network accelerators. *IEEE Transactions on Computers*, 73(2): 495–509, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Paul:2023:TBM

[PNK+23] Bikram Paul, Angana Nath, Srinivasan Krishnaswamy, Jan Pidanic, Zdenek Nemec, and Gaurav Trivedi. Tensor based multivariate polynomial modulo multiplier for cryptographic applications. *IEEE Transactions on Computers*, 72(6):1581–1594, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ponzina:2021:EEC

[PPQBA21] Flavio Ponzina, Miguel Peón-Quirós, Andreas Burg, and David Atienza. E2CNNs: Ensembles of convolutional neural networks to improve robustness against memory errors in edge-computing devices. *IEEE Transactions on Computers*, 70(8):1199–1212, August 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Pedrero:2022:SBT

[PQG+22] Manuel Pedrero, Ricardo Quislant, Eladio Gutierrez, Emilio L. Zapata, and Oscar Plata. Speculative barriers with transactional memory. *IEEE Transactions on Computers*, 71(1):197–208, January 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Pietrykowski:2022:PEP

[PS22] Michael Pietrykowski and Carol Smidts. Predictive execution of parallel simulations in hard real-time systems. *IEEE Transactions on Computers*, 71(12):3227–3241, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Perina:2021:FRT

[PSBB21] André B. Perina, Arthur Silitonga, Jürgen Becker, and Vanderlei Bonato. Fast resource and timing aware design optimisation for high-level synthesis. *IEEE Transactions on Computers*, 70(12): 2070–2082, December 2021. CODEN ITCOB4. ISSN 0018-

9340 (print), 1557-9956 (electronic).

Pan:2022:HAM

[PSM22] Zhixin Pan, Jennifer Sheldon, and Prabhat Mishra. Hardware-assisted malware detection and localization using explainable machine learning. *IEEE Transactions on Computers*, 71(12):3308–3321, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Perez:2021:SLL

[PVB21] Iván Pérez, Enrique Vallejo, and Ramón Beivide. S-SMART++: A low-latency NoC leveraging speculative bypass requests. *IEEE Transactions on Computers*, 70(6): 819–832, June 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Peng:2022:MNM

[PYDG22] Bo Peng, Jianguo Yao, Yaozu Dong, and Haibing Guan. MDev-NVMe: Mediated pass-through NVMe virtualization solution with adaptive polling. *IEEE Transactions on Computers*, 71(2):251–265, February 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Park:2020:PRB

[PYS20] J. Park, H. Yeom, and Y. Son. Page reusability-based cache partitioning for multi-core systems. *IEEE Transactions on Computers*, 69(6):812–818, June 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Paul:2023:RES

[PYS+23] Bikram Paul, Tarun Kumar Yadav, Balbir Singh, Srinivasan Krishnaswamy, and Gaurav Trivedi. A resource efficient software-hardware co-design of lattice-based homomorphic encryption scheme on the FPGA. *IEEE Transactions on Computers*, 72(5): 1247–1260, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Peng:2022:PLL

[PYW+22] Hao Peng, Renyu Yang, Zheng Wang, Jianxin Li, Lifang He, Philip S. Yu, Albert Y. Zomaya, and Rajiv Ranjan. `Lime`: Low-cost and incremental learning for dynamic heterogeneous information networks. *IEEE Transactions on Computers*, 71(3): 628–642, March 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Peng:2021:TON

[PYYG21] Bo Peng, Ming Yang, Jianguo Yao, and Haibing Guan. A throughput-oriented NVMe storage virtualization with workload-aware management.

IEEE Transactions on Computers, 70(12):2112–2124, December 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Pan:2023:LPF

[PZY+23] Yuqian Pan, Haichun Zhang, Runze Yu, Zhaojun Lu, Haoming Zhang, and Zhenglin Liu. LightWarner: Predicting failure of 3D NAND flash memory using reinforcement learning. *IEEE Transactions on Computers*, 72(3): 853–867, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Qi:2023:SHB

[QCX+23] Huayi Qi, Ye Cheng, Minghui Xu, Dongxiao Yu, Haipeng Wang, and Weifeng Lyu. Split: a hash-based memory optimization method for zero-knowledge succinct non-interactive argument of knowledge (zk-SNARK). *IEEE Transactions on Computers*, 72(7):1857–1870, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Qiu:2024:GPA

[QHT+24] Yudi Qiu, Tao Huang, Yuxin Tang, Yanwei Liu, Yang Kong, Xulin Yu, Xiaoyang Zeng, and Yibo Fan. Gem5Tune: a parameter auto-tuning framework for gem5 simulator to reduce errors. *IEEE Transactions on Computers*, 73(3): 902–914, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Qureshi:2021:GSA

[QHZ+21] Yasir Mahmood Qureshi, Jose Manuel Herruzo, Marina Zapater, Katzalin Olcoz, Sonia Gonzalez-Navarro, Oscar Plata, and David Atienza. Genome sequence alignment — design space exploration for optimal performance and energy architectures. *IEEE Transactions on Computers*, 70(12):2218–2233, December 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Qian:2020:GEI

[QWK20] X. Qian, Y. Wang, and A. Karanth. Guest editors introduction to the special issue on machine learning architectures and accelerators. *IEEE Transactions on Computers*, 69(7):929–930, July 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Qian:2023:OAE

[QWT+23] Bin Qian, Zhenyu Wen, Junqi Tang, Ye Yuan, Albert Y. Zomaya, and Rajiv Ranjan. OsmoticGate: Adaptive edge-based real-time video analytics for the Internet of Things. *IEEE Transactions on Com-*

puters, 72(4):1178–1193, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Qiu:2024:EPB

[QZZ+24] Han Qiu, Yi Zeng, Qinkai Zheng, Shangwei Guo, Tianwei Zhang, and Hewu Li. An efficient preprocessing-based approach to mitigate advanced adversarial attacks. *IEEE Transactions on Computers*, 73(3):645–655, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ramezanpour:2020:SPS

[RAD20] K. Ramezanpour, P. Ampadu, and W. Diehl. SCAUL: Power side-channel analysis with unsupervised learning. *IEEE Transactions on Computers*, 69(11):1626–1638, November 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Risso:2023:LNA

[RBC+23] Matteo Risso, Alessio Burrello, Francesco Conti, Lorenzo Lamberti, Yukai Chen, Luca Benini, Enrico Macii, Massimo Poncino, and Daniele Jahier Pagliari. Lightweight neural architecture search for temporal convolutional networks at the edge. *IEEE Transactions on Computers*, 72(3): 744–758, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Roy:2021:DFA

[RBM21] Dibyendu Roy, Bhagwan Bathe, and Subhamoy Maitra. Differential fault attack on Kreyvium & FLIP. *IEEE Transactions on Computers*, 70(12):2161–2167, December 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Richter-Brockmann:2022:FBS

[RBMG22] Jan Richter-Brockmann, Johannes Mono, and Tim Güneysu. Folding BIKE: Scalable hardware implementation for reconfigurable devices. *IEEE Transactions on Computers*, 71(5):1204–1215, May 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Richter-Brockmann:2023:RFA

[RBSG23] Jan Richter-Brockmann, Pascal Sasdrich, and Tim Güneysu. Revisiting fault adversary models hardware faults in theory and practice. *IEEE Transactions on Computers*, 72(2): 572–585, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Riedel:2023:MSM

[RCAB23] Samuel Riedel, Matheus Cavalcante, Renzo Andri, and Luca Benini. MemPool: a

scalable manycore architecture with a low-latency shared L1 memory. *IEEE Transactions on Computers*, 72(12): 3561–3575, December 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Rathore:2021:LFL

[RCS+21] Vijeta Rathore, Vivek Chaturvedi, Amit K. Singh, Thambipillai Srikanthan, and Muhammad Shafique. Longevity framework: Leveraging online integrated aging-aware hierarchical mapping and VF-selection for lifetime reliability optimization in manycore processors. *IEEE Transactions on Computers*, 70(7):1106–1119, July 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Roy:2023:SSM

[RDS23] Sanjit Kumar Roy, Rajesh Devaraj, and Arnab Sarkar. SAFLA: Scheduling multiple real-time periodic task graphs on heterogeneous systems. *IEEE Transactions on Computers*, 72(4):1067–1080, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ray:2022:MEH

[RGS22] Sanchita Saha Ray, Surajeet Ghosh, and Bhaskar Sardar. Memory efficient hash-based longest prefix matching architecture with zero false +ve and nearly zero false ve rate for IP processing. *IEEE Transactions on Computers*, 71(6): 1261–1275, June 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ros:2024:WPA

[RJ24] Alberto Ros and Alexandra Jimborean. Wrong-path-aware entangling instruction prefetcher. *IEEE Transactions on Computers*, 73(2): 548–559, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Radheshwar:2023:DFA

[RKMR23] R Radheshwar, Meenakshi Kansal, Pierrick Méaux, and Dibyendu Roy. Differential fault attack on Rasta and $\text{FiLIP}_{\text{dsm}}$. *IEEE Transactions on Computers*, 72(8): 2418–2425, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Restuccia:2023:FDV

[RMKO23] Francesco Restuccia, Andres Meza, Ryan Kastner, and Jason Oberg. A framework for design, verification, and management of SoC access control systems. *IEEE Transactions on Computers*, 72(2): 386–400, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Reviriego:2021:SET

[RMO21] P. Reviriego, J. Martínez, and M. Ottavi. Soft error tolerant count min sketches. *IEEE Transactions on Computers*, 70(2):284–290, February 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ro:2022:HFS

[RMR22] Jin Woo Ro, Avinash Malik, and Partha Roop. High fidelity simulation of hybrid systems using higher order hybrid automata. *IEEE Transactions on Computers*, 71(7): 1668–1680, July 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Reyhani-Masoleh:2020:NLA

[RMTA20] A. Reyhani-Masoleh, M. Taha, and D. Ashmawy. New low-area designs for the AES forward, inverse and combined S-boxes. *IEEE Transactions on Computers*, 69(12):1757–1773, December 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Rodriguez:2022:EHB

[ROPdlT22] Alfonso Rodríguez, Andrés Otero, Marco Platzner, and Eduardo de la Torre. Exploiting hardware-based data-parallel and multithreading models for smart edge computing in reconfigurable FPGAs. *IEEE Transactions on Computers*, 71(11):2903–2914, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Restuccia:2023:BMA

[RPB+23] Francesco Restuccia, Marco Pagani, Alessandro Biondi, Mauro Marinoni, and Giorgio Buttazzo. Bounding memory access times in multi-accelerator architectures on FPGA SoCs. *IEEE Transactions on Computers*, 72(1): 154–167, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Rapp:2021:NNB

[RPMH21] Martin Rapp, Anuj Pathania, Tulika Mitra, and Jörg Henkel. Neural network-based performance prediction for task migration on S-NUCA many-cores. *IEEE Transactions on Computers*, 70(10):1691–1704, October 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Rahimi:2021:DSH

[RPS+21] Hamed Rahimi, Yvan Picaud, Kamal Deep Singh, Giyyarpuram Madhusudan, Salvatore Costanzo, and Olivier Boissier. Design and simulation of a hybrid architecture for edge computing in 5G and beyond. *IEEE Transactions on Computers*, 70(8):

1213–1224, August 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Rezaalipour:2020:AMA

[RRDB20] M. Rezaalipour, M. Rezaalipour, M. Dehyadegari, and M. N. Bojnordi. AxMAP: Making approximate adders aware of input patterns. *IEEE Transactions on Computers*, 69(6):868–882, June 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Roohi:2020:AAG

[RSA+20] A. Roohi, S. Sheikhfaal, S. Angizi, D. Fan, and R. F. DeMara. ApGAN: Approximate GAN for robust low energy learning from imprecise components. *IEEE Transactions on Computers*, 69(3): 349–360, March 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Reviriego:2023:APA

[RSMMG+23] Pedro Reviriego, Alfonso Sánchez-Macián, Elena Merino-Gómez, Ori Rottenstreich, Shanshan Liu, and Fabrizio Lombardi. Attacking the privacy of approximate membership check filters by positive concentration. *IEEE Transactions on Computers*, 72(5): 1409–1419, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Rapp:2020:PCA

[RSP+20] M. Rapp, M. Sagi, A. Pathania, A. Herkersdorf, and J. Henkel. Power- and cache-aware task mapping with dynamic power budgeting for many-cores. *IEEE Transactions on Computers*, 69(1): 1–13, January 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Rosenfeld:2022:SGA

[RSR22] Bleema Rosenfeld, Osvaldo Simeone, and Bipin Rajendran. Spiking generative adversarial networks with a neural network discriminator: Local training, Bayesian models, and continual meta-learning. *IEEE Transactions on Computers*, 71(11):2778–2791, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Reddy:2023:DAR

[RSZ23] Sathi Sarveswara Reddy, Sharad Sinha, and Wei Zhang. Design and analysis of RSA and Paillier homomorphic cryptosystems using PSO-based evolutionary computation. *IEEE Transactions on Computers*, 72(7):1886–1900, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Rodrigues:2023:SRM

[RWCC23] Walber M. Rodrigues, Felipe N. Walmsley, George D. C. Cavalcanti, and Rafael M. O. Cruz. Security relevant methods of android's API classification: a machine learning empirical evaluation. *IEEE Transactions on Computers*, 72(11):3273–3285, November 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Segura:2022:EES

[SAG22] Albert Segura, Jose-Maria Arnau, and Antonio González. Energy-efficient stream compaction through filtering and coalescing accesses in GPGPU memory partitions. *IEEE Transactions on Computers*, 71(7):1711–1723, July 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Seo:2021:SIK

[SAJA21] Hwajeong Seo, Mila Anastasova, Amir Jalali, and Reza Azarderakhsh. Supersingular Isogeny Key Encapsulation (SIKE) Round 2 on ARM Cortex-M4. *IEEE Transactions on Computers*, 70(10): 1705–1718, October 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Singh:2020:CAE

[SBP+20] A. K. Singh, K. R. Basireddy, A. Prakash, G. V. Merrett, and B. M. Al-Hashimi. Collaborative adaptation for energy-efficient heterogeneous mobile SoCs. *IEEE Transactions on Computers*, 69(2): 185–197, February 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Sadok:2021:SDC

[SCC21] Hugo Sadok, Miguel Elias M. Campista, and Luís Henrique M. K. Costa. Stateful DRF: Considering the past in a multi-resource allocation. *IEEE Transactions on Computers*, 70(7):1094–1105, July 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Saez:2022:LFL

[SCFPM22] Juan Carlos Saez, Fernando Castro, Graziano Fanizzi, and Manuel Prieto-Matias. LFOC+: a fair OS-level cache-clustering policy for commodity multicore systems. *IEEE Transactions on Computers*, 71(8):1952–1967, August 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Shi:2024:ATC

[SCL+24] Jianqi Shi, Yinghao Chen, Qin Li, Yanhong Huang, Yang Yang, and Mengyan Zhao. Automated test cases generator for IEC 61131-3 structured text based dynamic symbolic execution. *IEEE Transac-*

tions on Computers, 73(4): 1048–1059, April 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Sheng:2021:EBU

[SCY21] F. Sheng, Q. Cao, and J. Yao. Exploiting buffered updates for fast streaming graph analysis. *IEEE Transactions on Computers*, 70(2):255–269, February 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Sun:2023:ERK

[SCY+23] Yongqian Sun, Daguo Cheng, Tiankai Yang, Yuhe Ji, Shenglin Zhang, Man Zhu, Xiao Xiong, Qiliang Fan, Minghan Liang, Dan Pei, Tianchi Ma, and Yu Chen. Efficient and robust KPI outlier detection for large-scale datacenters. *IEEE Transactions on Computers*, 72(10): 2858–2871, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Siracusa:2022:CMO

[SDR+22] Marco Siracusa, Emanuele Del Sozzo, Marco Rabozzi, Lorenzo Di Tucci, Samuel Williams, Donatella Sciuto, and Marco Domenico Santambrogio. A comprehensive methodology to optimize FPGA designs via the roofline model. *IEEE Transactions on Computers*, 71(8):1903–1915, August 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Shukla:2023:CCI

[SEM23] Aditya Shukla, Mikhail Erementchouk, and Pinaki Mazumder. Custom CMOS Ising machine based on relaxed Burer–Monteiro–Zhang heuristic. *IEEE Transactions on Computers*, 72(10):2835–2846, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Sun:2020:RTS

[SGL+20] J. Sun, N. Guan, F. Li, H. Gao, C. Shi, and W. Yi. Real-time scheduling and analysis of OpenMP DAG tasks supporting nested parallelism. *IEEE Transactions on Computers*, 69(9):1335–1348, September 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Sun:2021:ACW

[SGS+21] J. Sun, N. Guan, J. Sun, X. Zhang, Y. Chi, and F. Li. Algorithms for computing the WCRT bound of OpenMP task systems with conditional branches. *IEEE Transactions on Computers*, 70(1): 57–71, January 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Song:2024:LLS

[SHZ+24] Mingyang Song, Zhongyun Hua, Yifeng Zheng, Hejiao Huang, and Xiaohua Jia. LSD-edup: Layered secure deduplication for cloud storage. *IEEE Transactions on Computers*, 73(2):422–435, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Salamat:2020:AHC

[SIR20] S. Salamat, M. Imani, and T. Rosing. Accelerating hyperdimensional computing on FPGAs by exploiting computational reuse. *IEEE Transactions on Computers*, 69(8): 1159–1171, August 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Surabhi:2022:TDE

[SKA+22] Virinchi Roy Surabhi, Prashanth Krishnamurthy, Hussam Amrouch, Jörg Henkel, Ramesh Karri, and Farshad Khorrami. Trojan detection in embedded systems with FinFET technology. *IEEE Transactions on Computers*, 71(11):3061–3071, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Seol:2021:ADP

[SKK+21] H. Seol, M. Kim, T. Kim, Y. Kim, and L.-S. Kim. Amnesiac DRAM: a proactive defense mechanism against cold boot attacks. *IEEE Transactions on Computers*, 70(4): 539–551, April 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Shin:2023:FFF

[SKK23] Hyein Shin, Myeonggu Kang, and Lee-Sup Kim. Fault-free: a framework for analysis and mitigation of stuck-at-fault on realistic ReRAM-based DNN accelerators. *IEEE Transactions on Computers*, 72(7): 2011–2024, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Shamsa:2022:CAB

[SKLR22] Elham Shamsa, Anil Kanduri, Pasi Liljeberg, and Amir M. Rahmani. Concurrent application bias scheduling for energy efficiency of heterogeneous multi-core platforms. *IEEE Transactions on Computers*, 71(4):743–755, April 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Symvoulidis:2023:UMB

[SKM+23] Chrysostomos Symvoulidis, Athanasios Kiourtis, George Marinos, Jean-Didier Totow Tom-Ata, George Manias, Argyro Mavrogiorgou, and Dimosthenis Kyriazis. A user mobility-based data placement strategy in a hybrid

cloud/edge environment using a causal-aware deep learning network. *IEEE Transactions on Computers*, 72(12):3603–3616, December 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Sakalis:2020:USD

[SKR+20] C. Sakalis, S. Kaxiras, A. Ros, A. Jimborean, and M. Själander. Understanding selective delay as a method for efficient secure speculative execution. *IEEE Transactions on Computers*, 69(11):1584–1595, November 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Shi:2023:QSP

[SL23] Run-Hua Shi and Yi-Fei Li. Quantum secret permutating protocol. *IEEE Transactions on Computers*, 72(5): 1223–1235, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Song:2023:TPS

[SLOM+23] Bosheng Song, Kenli Li, David Orellana-Martín, Xiangxiang Zeng, and Mario J. Pérez-Jiménez. Tissue P systems with states in cells. *IEEE Transactions on Computers*, 72(9):2561–2570, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Shen:2021:CAS

[SLS+21] Zhirong Shen, Shiyao Lin, Jiwu Shu, Chengxin Xie, Zhijie Huang, and Yingxun Fu. Cluster-aware scattered repair in erasure-coded storage: Design and analysis. *IEEE Transactions on Computers*, 70(11):1861–1874, November 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Shang:2022:OSF

[SLY22a] Xiaojun Shang, Zhenhua Liu, and Yuanyuan Yang. Online service function chain placement for cost-effectiveness and network congestion control. *IEEE Transactions on Computers*, 71(1):27–39, January 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Sun:2022:IAS

[SLY+22b] Qingxiao Sun, Yi Liu, Hailong Yang, Ming Dun, Zhongzhi Luan, Lin Gan, Guangwen Yang, and Depei Qian. Input-aware sparse tensor storage format selection for optimizing MTTKRP. *IEEE Transactions on Computers*, 71(8): 1968–1981, August 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Spliet:2022:PSD

[SM22] Roy Spliet and Robert D. Mullins. `Sim-D`: a SIMD accelerator for hard real-time

systems. *IEEE Transactions on Computers*, 71(4):851–865, April 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Sugiura:2024:IFA

[SM24] Keisuke Sugiura and Hiroki Matsutani. An integrated FPGA accelerator for deep learning-based 2D/3D path planning. *IEEE Transactions on Computers*, 73(6): 1442–1456, June 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Salahvarzi:2021:NNO

[SMFS21] A. Salahvarzi, A. M. H. Monazzah, M. Fazeli, and K. Skadron. NOSTalgy: Near-optimum run-time STT-MRAM quality-energy knob management for approximate computing applications. *IEEE Transactions on Computers*, 70(3):414–427, March 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Sa:2022:FLR

[SMP22] Bruno Sá, José Martins, and Sandro Pinto. A first look at RISC-V virtualization from an embedded systems perspective. *IEEE Transactions on Computers*, 71(9):2177–2190, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Shi:2022:AME

[SMY22] Xinming Shi, Leandro L. Minku, and Xin Yao. Adaptive memory-enhanced time delay reservoir and its memristive implementation. *IEEE Transactions on Computers*, 71(11):2766–2777, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Servadei:2020:ACE

[SMZ+20] L. Servadei, E. Mosca, E. Zennaro, K. Devarajegowda, M. Werner, W. Ecker, and R. Wille. Accurate cost estimation of memory systems utilizing machine learning and solutions from computer vision for design automation. *IEEE Transactions on Computers*, 69(6):856–867, June 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Sehatbakhsh:2020:RRE

[SNA+20] N. Sehatbakhsh, A. Nazari, M. Alam, F. Werner, Y. Zhu, A. Zajic, and M. Prvulovic. REMOTE: Robust external malware detection framework by using electromagnetic signals. *IEEE Transactions on Computers*, 69(3): 312–326, March 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Salami:2021:FAE

[SNN21] B. Salami, H. Noori, and M. Naghibzadeh. Fairness-aware energy efficient scheduling on heterogeneous multicore processors. *IEEE Transactions on Computers*, 70(1): 72–82, January 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

SLPSK:2023:SCR

[SNRB23] Patanjali SLPSK, Abhishek Anil Nair, Chester Rebeiro, and Swarup Bhunia. SIGNED: a challenge-response scheme for electronic hardware watermarking. *IEEE Transactions on Computers*, 72(6): 1763–1777, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Schober:2022:HAM

[SNT22] Peter Schober, M. Hassan Najafi, and Nima TaheriNejad. High-accuracy multiply-accumulate (MAC) technique for unary stochastic computing. *IEEE Transactions on Computers*, 71(6):1425–1439, June 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Sutradhar:2023:PPC

[SO23] Kartick Sutradhar and Hari Om. A privacy-preserving comparison protocol. *IEEE Transactions on Computers*, 72(6):1815–1821, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Seyoum:2021:STO

[SPB+21] Biruk Seyoum, Marco Pagani, Alessandro Biondi, Sara Balleri, and Giorgio Buttazzo. Spatio-temporal optimization of deep neural networks for reconfigurable FPGA SoCs. *IEEE Transactions on Computers*, 70(11): 1988–2000, November 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Silvestri:2022:ERM

[SPDQ22] Emiliano Silvestri, Alessandro Pellegrini, Pierangelo Di Sanzo, and Francesco Quaglia. Effective runtime management of tasks and priorities in GNU OpenMP applications. *IEEE Transactions on Computers*, 71(10):2632–2645, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Shi:2023:WGM

[SPH+23] Xuanhua Shi, Xuan Peng, Ligang He, Yunfei Zhao, and Hai Jin. Waterwave: a GPU memory flow engine for concurrent DNN training. *IEEE Transactions on Computers*, 72(10): 2938–2950, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Sousa:2020:TIR

[SPMP20] L. Sousa, R. Paludo, P. Martins, and H. Pettenghi. Towards the integration of reverse converters into the RNS channels. *IEEE Transactions on Computers*, 69(3): 342–348, March 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Simon:2020:BCC

[SQR+20] W. A. Simon, Y. M. Qureshi, M. Rios, A. Levisse, M. Zapater, and D. Atienza. BLADE: An in-cache computing architecture for edge devices. *IEEE Transactions on Computers*, 69(9):1349–1363, September 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

SLPSK:2023:TSA

[SRB23] Patanjali SLPSK, Sandip Ray, and Swarup Bhunia. TREEHOUSE: a secure asset management infrastructure for protecting 3DIC designs. *IEEE Transactions on Computers*, 72(8):2306–2320, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Salamin:2021:PEH

[SRP+21] Sami Salamin, Martin Rapp, Anuj Pathania, Arka Maity, Jörg Henkel, Tulika Mitra, and Hussam Amrouch. Power-efficient heterogeneous many-core design with NCFET technology. *IEEE Transactions on Computers*, 70(9):1484–1497, September 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Sharma:2021:MCM

[SSJ21] Mayank Sharma, Sumit Soman, and Jayadeva. Minimal complexity machines under weight quantization. *IEEE Transactions on Computers*, 70(8):1189–1198, August 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Senapati:2022:PPA

[SSK22] Debabrata Senapati, Arnab Sarkar, and Chandan Karfa. PRESTO: a penalty-aware real-time scheduler for task graphs on heterogeneous platforms. *IEEE Transactions on Computers*, 71(2):421–435, February 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Shepherd:2023:IBB

[SSM23] Carlton Shepherd, Benjamin Semal, and Konstantinos Markantonakis. Investigating black-box function recognition using hardware performance counters. *IEEE Transactions on Computers*, 72(7): 2065–2079, July 2023. CODEN ITCOB4. ISSN 0018-

9340 (print), 1557-9956 (electronic).

Sadhukhan:2024:VEF

[SSP+24] Rajat Sadhukhan, Sayandeep Saha, Sudipta Paria, Swarup Bhunia, and Debdeep Mukhopadhyay. VALIANT: an EDA flow for side-channel leakage evaluation and tailored protection. *IEEE Transactions on Computers*, 73(2): 436–450, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Shen:2024:BBD

[SSW+24] Jiahao Shen, Hao Sheng, Shuai Wang, Ruixuan Cong, Da Yang, and Yang Zhang. Blockchain-based distributed multiagent reinforcement learning for collaborative multiobject tracking framework. *IEEE Transactions on Computers*, 73(3):778–788, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Shao:2021:TDM

[SSY+21] Huajie Shao, Dachun Sun, Shuochao Yao, Lu Su, Zhibo Wang, Dongxin Liu, Shengzhong Liu, Lance Kaplan, and Tarek Abdelzaher. Truth discovery with multi-modal data in social sensing. *IEEE Transactions on Computers*, 70(9): 1325–1337, September 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Sun:2020:APM

[SSZ+20] J. Sun, G. Sun, S. Zhan, J. Zhang, and Y. Chen. Automated performance modeling of HPC applications using machine learning. *IEEE Transactions on Computers*, 69(5):749–763, May 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic). URL `https://ieeexplore.ieee.org/document/8956059`.

Shirai:2023:MSF

[ST23a] Tatsuhiko Shirai and Nozomu Togawa. Multi-spin-flip engineering in an Ising machine. *IEEE Transactions on Computers*, 72(3):759–771, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Shirai:2023:SVR

[ST23b] Tatsuhiko Shirai and Nozomu Togawa. Spin-variable reduction method for handling linear equality constraints in Ising machines. *IEEE Transactions on Computers*, 72(8): 2151–2164, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Shirazi:2023:ERR

[STK23] Mahmoud Shirazi, Lothar Thiele, and Mehdi Kargahi. Energy-resilient real-

time scheduling. *IEEE Transactions on Computers*, 72(1): 69–81, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Sun:2024:EGS

[STQ+24] Binqi Sun, Mirco Theile, Ziyuan Qin, Daniele Bernardini, Debayan Roy, Andrea Bastoni, and Marco Caccamo. Edge generation scheduling for DAG tasks using deep reinforcement learning. *IEEE Transactions on Computers*, 73(4):1034–1047, April 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Shao:2021:NOH

[STW+21] En Shao, Guangming Tan, Zhan Wang, Guojun Yuan, Zheng Cao, and Ninghui Sun. A new optoelectronic hybrid network based on scheduling optimization of optical links. *IEEE Transactions on Computers*, 70(6):863–876, June 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Shen:2024:AAM

[STZ+24] Zhaoyan Shen, Qingxiang Tang, Tianren Zhou, Yuhao Zhang, Zhiping Jia, Dongxiao Yu, Zhiyong Zhang, and Bingzhe Li. ASHL: an adaptive multi-stage distributed deep learning training scheme for heterogeneous environments. *IEEE Transactions on Computers*, 73(1):30–43, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Slimani:2023:ARF

[SWR+23] Camélia Slimani, Chun-Feng Wu, Stéphane Rubini, Yuan-Hao Chang, and Jalil Boukhobza. Accelerating random forest on memory-constrained devices through data storage optimization. *IEEE Transactions on Computers*, 72(6): 1595–1609, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Song:2024:RSA

[SXH+24] Wei Song, Zihan Xue, Jinchi Han, Zhenzhen Li, and Peng Liu. Randomizing set-associative caches against conflict-based cache side-channel attacks. *IEEE Transactions on Computers*, 73(4): 1019–1033, April 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Shi:2024:RCP

[SXZJ24] Zhanhui Shi, Jie Xiao, Weidong Zhu, and Jianhui Jiang. A reliability-critical path identifying method with local and global adjacency probability matrix in combinational circuits. *IEEE Transactions on Computers*, 73(1): 123–137, January 2024. CO-

DEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Shen:2023:CCA

[SYL+23] Shiyu Shen, Hao Yang, Yu Liu, Zhe Liu, and Yunlei Zhao. CARM: CUDA-Accelerated RNS Multiplication in word-wise homomorphic encryption schemes for Internet of Things. *IEEE Transactions on Computers*, 72(7):1999–2010, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Sun:2022:MNA

[SYW+22] Gongjian Sun, Mingyu Yan, Duo Wang, Han Li, Wenming Li, Xiaochun Ye, Dongrui Fan, and Yuan Xie. Multi-node acceleration for large-scale GCNs. *IEEE Transactions on Computers*, 71(12): 3140–3152, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Stauffer:2022:PSS

[SZ22] Jake Stauffer and Qingxue Zhang. `SpikeBASE`: Spiking neural learning algorithm with backward adaptation of synaptic efflux. *IEEE Transactions on Computers*, 71(11): 2707–2716, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Sadiqbatcha:2022:RTF

[SZAT22] Sheriff Sadiqbatcha, Jinwei Zhang, Hussam Amrouch, and Sheldon X.-D. Tan. Real-time full-chip thermal tracking: a post-silicon, machine learning perspective. *IEEE Transactions on Computers*, 71(6): 1411–1424, June 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Schuiki:2021:SSR

[SZHB21] F. Schuiki, F. Zaruba, T. Hoefler, and L. Benini. Stream semantic registers: A lightweight RISC-V ISA extension achieving full compute utilization in single-issue cores. *IEEE Transactions on Computers*, 70(2):212–227, February 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Salamin:2022:INT

[SZK+22] Sami Salamin, Georgios Zervakis, Florian Klemme, Hammam Kattan, Yogesh Chauhan, Jörg Henkel, and Hussam Amrouch. Impact of NCFET technology on eliminating the cooling cost and boosting the efficiency of Google TPU. *IEEE Transactions on Computers*, 71(4):906–918, April 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Sha:2022:AAT

[SZL+22] Sai Sha, Yi Zhang, Yingwei Luo, Xiaolin Wang, and Zhenlin Wang. Accelerating address translation for virtualization by leveraging hardware mode. *IEEE Transactions on Computers*, 71(11):3047–3060, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Sun:2024:BBM

[SZL+24] Wenhao Sun, Zhiwei Zou, Deng Liu, Wendi Sun, Song Chen, and Yi Kang. Bitbalance: Model-hardware codesign for accelerating NNs by exploiting bit-level sparsity. *IEEE Transactions on Computers*, 73(1):152–163, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Su:2022:DOM

[SZS+22] Ya Su, Youjian Zhao, Ming Sun, Shenglin Zhang, Xidao Wen, Yongsu Zhang, Xian Liu, Xiaozhou Liu, Junliang Tang, Wenfei Wu, and Dan Pei. Detecting outlier machine instances through Gaussian mixture variational autoencoder with one dimensional CNN. *IEEE Transactions on Computers*, 71(4): 892–905, April 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tahir:2023:LBC

[TARK23] Anam Tahir, Bastian Alt, Amr Rizk, and Heinz Koeppl. Load balancing in compute clusters with delayed feedback. *IEEE Transactions on Computers*, 72(6):1610–1622, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tan:2021:OSE

[TC21] Bochen Tan and Jason Cong. Optimality study of existing quantum computing layout synthesis tools. *IEEE Transactions on Computers*, 70(9): 1363–1373, September 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tuli:2023:SCR

[TCJ23] Shreshth Tuli, Giuliano Casale, and Nicholas R. Jennings. SciNet: Codesign of resource management in cloud computing environments. *IEEE Transactions on Computers*, 72(12):3590–3602, December 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tao:2023:BRF

[TCX+23] Youming Tao, Sijia Cui, Wenlu Xu, Haofei Yin, Dongxiao Yu, Weifa Liang, and Xiuzhen Cheng. Byzantine-resilient federated learning at edge. *IEEE Transactions on Computers*, 72(9):2600–

2614, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tran:2023:TFP

[TDH+23] Thai-Ha Tran, Ba-Anh Dao, Trong-Thuc Hoang, Van-Phuc Hoang, and Cong-Kha Pham. Transition factors of power consumption models for CPA attacks on cryptographic RISC-V SoC. *IEEE Transactions on Computers*, 72(9): 2689–2700, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tapwal:2023:SBV

[TDMP23] Riya Tapwal, Pallav Kumar Deb, Sudip Misra, and Surjya Kanta Pal. Shadows: Blockchain virtualization for interoperable computations in IIoT environments. *IEEE Transactions on Computers*, 72(3):868–879, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tang:2022:AAE

[TDZ+22] Zhuo Tang, Lifan Du, Xuedong Zhang, Li Yang, and Kenli Li. AEML: an acceleration engine for multi-GPU load-balancing in distributed heterogeneous environment. *IEEE Transactions on Computers*, 71(6): 1344–1357, June 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Thomann:2023:HSC

[TGA23] Simon Thomann, Paul R. Genssler, and Hussam Amrouch. HW/SW co-design for reliable TCAM-based in-memory brain-inspired hyperdimensional computing. *IEEE Transactions on Computers*, 72(8):2404–2417, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tang:2022:WOM

[TGS+22] Yufeng Tang, Zheng Gong, Tao Sun, Jinhai Chen, and Zhe Liu. WBMatrix: an optimized matrix library for white-box block cipher implementations. *IEEE Transactions on Computers*, 71(12): 3375–3388, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tang:2023:CCP

[TJG+23] Yue Tang, Xu Jiang, Nan Guan, Dong Ji, Xiantong Luo, and Wang Yi. Comparing communication paradigms in cause-effect chains. *IEEE Transactions on Computers*, 72(1):82–96, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tsukada:2020:NNB

[TKM20] M. Tsukada, M. Kondo, and H. Matsutani. A neural network-based on-device learning anomaly detector for edge devices. *IEEE Transactions on Computers*, 69(7): 1027–1044, July 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Taheri:2023:AAC

[TKN23] Ebadollah Taheri, Ryan Gary Kim, and Mahdi Nikdast. AdEle+: an adaptive congestion-and-energy-aware elevator selection for partially connected 3D networks-on-chip. *IEEE Transactions on Computers*, 72(8):2278–2292, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tosoni:2024:MFM

[TOF+24] Francesco Tosoni, Nicola Dall Ora, Enrico Fraccaroli, Sara Vinco, and Franco Fummi. Multidomain fault models covering the analog side of a smart or cyber physical system. *IEEE Transactions on Computers*, 73(3): 829–841, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Towhidy:2023:DIA

[TOM23] Ahmad Towhidy, Reza Omidi, and Karim Mohammadi. On the design of iterative approximate floating-point multipliers. *IEEE Transactions on Computers*, 72(6):1623–1635, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tan:2023:SAQ

[TPWY23] Jingweijia Tan, Liqi Ping, Qixiang Wang, and Kaige Yan. Saca-AVF: a quantitative approach to analyze the architectural vulnerability factors of CNN accelerators. *IEEE Transactions on Computers*, 72(11):3042–3056, November 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tang:2022:VRE

[TQL+22] Yutao Tang, Zhengrui Qin, Zhiqiang Lin, Yue Li, Shanhe Yi, Fengyuan Xu, and Qun Li. vTrust: Remotely executing mobile apps transparently with local untrusted OS. *IEEE Transactions on Computers*, 71(12):3349–3360, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tarapore:2022:OIL

[TRBM22] Dharmesh Tarapore, Shahin Roozkhosh, Steven Brzozowski, and Renato Mancuso. Observing the invisible: Live cache inspection for high-performance embedded systems. *IEEE Transactions on Computers*, 71(3):

559–572, March 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Turan:2020:HAH

[TRV20] F. Turan, S. S. Roy, and I. Verbauwhede. HEAWS: An accelerator for homomorphic encryption on the Amazon AWS FPGA. *IEEE Transactions on Computers*, 69(8): 1185–1196, August 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Talebi:2021:RRH

[TSM+21] Mahdi Talebi, Arash Salahvarzi, Amir Mahdi Hosseini Monazzah, Kevin Skadron, and Mahdi Fazeli. ROCKY: A robust hybrid on-chip memory kit for the processors with STT-MRAM cache technology. *IEEE Transactions on Computers*, 70(12):2198–2210, December 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tsiokanos:2023:AAE

[TTG+23] Ioannis Tsiokanos, Styliani Tompazi, Giorgis Georgakoudis, Lev Mukhanov, and Georgios Karakonstantis. ARETE: Accurate error assessment via machine learning-guided dynamic-timing analysis. *IEEE Transactions on Computers*, 72(4):1026–1040, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tian:2023:VVR

[TWaKo+23] Guohua Tian, Jianghong Wei, Miros aw Kuty owski, Willy Susilo, Xinyi Huang, and Xiaofeng Chen. VRBC: a verifiable redactable blockchain with efficient query and integrity auditing. *IEEE Transactions on Computers*, 72(7): 1928–1942, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tu:2022:HSD

[TWJ+22] Kuan-Hua Tu, Hung-En Wang, Jie-Hong R. Jiang, Natalia Kushik, and Nina Yevtushenko. Homing sequence derivation with quantified Boolean satisfiability. *IEEE Transactions on Computers*, 71(3):696–711, March 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tian:2022:ESI

[TWL+22] Jing Tian, Piaoyang Wang, Zhe Liu, Jun Lin, Zhongfeng Wang, and Johann Großschädl. Efficient software implementation of the SIKE protocol using a new data representation. *IEEE Transactions on Computers*, 71(3):670–683, March 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tan:2023:HSV

[TWZ+23] Weihang Tan, Antian Wang, Xinmiao Zhang, Yingjie Lao, and Keshab K. Parhi. High-speed VLSI architectures for modular polynomial multiplication via fast filtering and applications to lattice-based cryptography. *IEEE Transactions on Computers*, 72(9): 2454–2466, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tang:2022:FDR

[TZ22] Yok Jye Tang and Xinmiao Zhang. Fast en/decoding of Reed–Solomon codes for failure recovery. *IEEE Transactions on Computers*, 71(3): 724–735, March 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tan:2024:PAA

[TZY+24] Kai Tan, Dongyang Zhan, Lin Ye, Hongli Zhang, and Binxing Fang. A practical adversarial attack against sequence-based deep learning malware classifiers. *IEEE Transactions on Computers*, 73(3): 708–721, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Tang:2021:FLE

[TZZ+21] Xiongchao Tang, Chen Zhang, Jidong Zhai, Xuehai Qian, Wenguang Chen, and Yong Jiang. A fast lock for explicit message passing architectures. *IEEE Transactions on Computers*, 70(10):1555–1568, October 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ueter:2023:PPP

[UGvdBC23] Niklas Ueter, Mario Günzel, Georg von der Brüggen, and Jian-Jia Chen. Parallel path progression DAG scheduling. *IEEE Transactions on Computers*, 72(10):3002–3016, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ueno:2020:HTG

[UMM+20] R. Ueno, S. Morioka, N. Miura, K. Matsuda, M. Nagata, S. Bhasin, Y. Mathieu, T. Graba, J. Danger, and N. Homma. High throughput/gate AES hardware architectures based on datapath compression. *IEEE Transactions on Computers*, 69(4):534–548, April 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ullah:2021:AOA

[USS+21] S. Ullah, H. Schmidl, S. S. Sahoo, S. Rehman, and A. Kumar. Area-optimized accurate and approximate softcore signed multiplier architectures. *IEEE Transactions on Computers*, 70(3): 384–392, March 2021. CO-

DEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ugurlu:2022:PPB

[UYZP22] Elvan Mert Ugurlu, Baki Berkay Yilmaz, Alenka Zajić, and Milos Prvulovic. PITEM: Permutations-based instruction tracking via electromagnetic side-channel signal analysis. *IEEE Transactions on Computers*, 71(5):1156–1169, May 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Vasan:2020:MCA

[VAV+20] D. Vasan, M. Alazab, S. Venkatraman, J. Akram, and Z. Qin. MTHAEL: Cross-architecture IoT malware detection based on neural network advanced ensemble learning. *IEEE Transactions on Computers*, 69(11):1654–1667, November 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Varsamopoulos:2020:CNN

[VBA20] S. Varsamopoulos, K. Bertels, and C. G. Almudever. Comparing neural network based decoders for the surface code. *IEEE Transactions on Computers*, 69(2):300–311, February 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Vandebon:2021:EHL

[VCLN21] Jessica Vandebon, Jose G. F. Coutinho, Wayne Luk, and Eriko Nurvitadhi. Enhancing high-level synthesis using a meta-programming approach. *IEEE Transactions on Computers*, 70(12):2043–2055, December 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Volkova:2020:AAR

[VHL20] A. Volkova, T. Hilaire, and C. Lauter. Arithmetic approaches for rigorous design of reliable fixed-point LTI filters. *IEEE Transactions on Computers*, 69(4):489–504, April 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Vyas:2021:KMM

[VJWZ+21] V. Vyas, L. Jiang-Wei, P. Zhou, X. Hu, and J. S. Friedman. Karnaugh map method for memristive and spintronic asymmetric basis logic functions. *IEEE Transactions on Computers*, 70(1): 128–138, January 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Vairam:2022:FBF

[VKRK22] Prasanna Karthik Vairam, Pratyush Kumar, Chester Rebeiro, and V. Kamakoti. FadingBF: a Bloom filter with

consistent guarantees for online applications. *IEEE Transactions on Computers*, 71(1): 40–52, January 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

vanSanten:2023:MPC

[vSDHA23] Victor M. van Santen, Fu Lam Florian Diep, Jörg Henkel, and Hussam Amrouch. Massively parallel circuit setup in GPU-SPICE. *IEEE Transactions on Computers*, 72(8):2127–2138, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Vaidhun:2023:PMC

[VSG+23] Sudharsan Vaidhun, Tianning She, Qijun Gu, Sajal K. Das, Kecheng Yang, and Zhishan Guo. Precise mixed-criticality scheduling on varying-speed multiprocessors. *IEEE Transactions on Computers*, 72(1): 43–54, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2022:CTB

[WBJC22] Chundong Wang, Gunavaran Brihadiswarn, Xingbin Jiang, and Sudipta Chattopadhyay. Circ-Tree: a B+-tree variant with circular design for persistent memory. *IEEE Transactions on Computers*, 71(2): 296–308, February 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2023:ACB

[WCB23] Xiaogang Wang, Jian Cao, and Rajkumar Buyya. Adaptive cloud bundle provisioning and multi-workflow scheduling via coalition reinforcement learning. *IEEE Transactions on Computers*, 72(4): 1041–1054, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2023:ZSG

[WCL+23] Jinzhen Wang, Qi Chen, Tong Liu, Qing Liu, and Xubin He. zPerf: a statistical gray-box approach to performance modeling and extrapolation for scientific lossy compression. *IEEE Transactions on Computers*, 72(9): 2641–2655, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2022:CCI

[WCQW22] Yifeng Wang, Baolei Cheng, Yu Qian, and Dajin Wang. Constructing completely independent spanning trees in a family of line-graph-based data center networks. *IEEE Transactions on Computers*, 71(5):1194–1203, May 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wu:2020:JMC

[WCYK20] C. Wu, Y. Chang, M. Yang, and T. Kuo. Joint management of CPU and NVDIMM for breaking down the Great Memory Wall. *IEEE Transactions on Computers*, 69(5): 722–733, May 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic). URL `https://ieeexplore.ieee.org/document/8950228`.

Wang:2024:TSR

[WCZ+24] Yanling Wang, Xiaolin Chang, Haoran Zhu, Jianhua Wang, Yanwei Gong, and Lin Li. Towards secure runtime customizable trusted execution environment on FPGA-SoC. *IEEE Transactions on Computers*, 73(4):1138–1151, April 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2020:LLF

[WDCC20] E. Wang, J. J. Davis, P. Y. K. Cheung, and G. A. Constantinides. LUTNet: Learning FPGA configurations for highly efficient neural network inference. *IEEE Transactions on Computers*, 69(12):1795–1808, December 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2022:EPS

[WDQ+22] Bangyan Wang, Lei Deng, Zheng Qu, Shuangchen Li, Zheng Zhang, and Yuan Xie. Efficient processing of sparse tensor decomposition via unified abstraction and PE-interactive architecture. *IEEE Transactions on Computers*, 71(2):266–281, February 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wu:2023:POC

[WDW+23] Jiashu Wu, Hao Dai, Yang Wang, Yong Zhang, Dong Huang, and Chengzhong Xu. PackCache: an online cost-driven data caching algorithm in the cloud. *IEEE Transactions on Computers*, 72(4): 1208–1214, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wu:2022:DEC

[WDZ+22] Suzhen Wu, Chunfeng Du, Weiwei Zhang, Bo Mao, and Hong Jiang. DedupHR: Exploiting content locality to alleviate read/write interference in deduplication-based flash storage. *IEEE Transactions on Computers*, 71(6): 1332–1343, June 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wu:2023:EEA

[WDZ+23] Suzhen Wu, Chunfeng Du, Weidong Zhu, Jindong Zhou, Hong Jiang, Bo Mao, and Lingfang Zeng. EaD: ECC-

Assisted deduplication with high performance and low memory overhead for ultra-low latency flash storage. *IEEE Transactions on Computers*, 72(1):208–221, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wu:2024:FBS

[WDZ+24] Zhaorui Wu, Yuhui Deng, Yi Zhou, Jie Li, Shujie Pang, and Xiao Qin. FaaSBatch: Boosting serverless efficiency with in-container parallelism and resource multiplexing. *IEEE Transactions on Computers*, 73(4):1071–1085, April 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2024:DHS

[WFH+24] Yueyao Wang, Samuel Furman, Nicolas Hardy, Margaret Ellis, Godmar Back, Yili Hong, and Kirk Cameron. A detailed historical and statistical analysis of the influence of hardware artifacts on SPEC integer benchmark performance. *IEEE Transactions on Computers*, 73(5): 1262–1274, May 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2021:IWP

[WFT+21] C. Wang, D. Feng, W. Tong, J. Liu, B. Wu, W. Zhao, Y. Zhang, and Y. Chen. Improving write performance on cross-point RRAM arrays by leveraging multidimensional non-uniformity of cell effective voltage. *IEEE Transactions on Computers*, 70(4):566–580, April 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2020:EEE

[WFW+20] J. Wang, X. Fu, X. Wang, S. Liu, L. Gao, and W. Zhang. Enabling energy-efficient and reliable neural network via neuron-level voltage scaling. *IEEE Transactions on Computers*, 69(10):1460–1473, October 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wen:2022:EOS

[WGD+22] Yuanbo Wen, Qi Guo, Zidong Du, Jianxing Xu, Zhenxing Zhang, Xing Hu, Wei Li, Rui Zhang, Chao Wang, Xuehai Zhou, and Tianshi Chen. Enabling one-size-fits-all compilation optimization for inference across machine learning computers. *IEEE Transactions on Computers*, 71(9): 2313–2326, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2020:FSA

[WGL+20] T. Wang, T. Geng, A. Li, X. Jin, and M. Herbordt. FPDeep: Scalable acceleration of CNN training on

deeply-pipelined FPGA clusters. *IEEE Transactions on Computers*, 69(8):1143–1158, August 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2020:WUA

[WGM+20] C. Wang, L. Gong, X. Ma, X. Li, and X. Zhou. WooKong: A ubiquitous accelerator for recommendation algorithms with custom instruction sets on FPGA. *IEEE Transactions on Computers*, 69(7): 1071–1082, July 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2022:HAG

[WGT+22] Haozhao Wang, Song Guo, Bin Tang, Ruixuan Li, Yutong Yang, Zhihao Qu, and Yi Wang. Heterogeneity-aware gradient coding for tolerating and leveraging stragglers. *IEEE Transactions on Computers*, 71(4):779–794, April 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2020:SEC

[WHC20] X. Wang, F. Huang, and H. Chen. Secure and efficient control data isolation with register-based data cloaking. *IEEE Transactions on Computers*, 69(2):226–238, February 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2023:DTC

[WHC+23] Xiaohang Wang, Hengli Huang, Ruolin Chen, Yingtao Jiang, Amit Kumar Singh, Mei Yang, and Letian Huang. Detection of thermal covert channel attacks based on classification of components of the thermal signal features. *IEEE Transactions on Computers*, 72(4): 971–983, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wu:2024:CCD

[WHK24] Wan-Ling Wu, Jen-Wei Hsieh, and Hao-Yu Ku. CDS: Coupled data storage to enhance read performance of 3D TLC NAND flash memory. *IEEE Transactions on Computers*, 73(3):694–707, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wu:2021:SSA

[WHL+21] W. Wu, L. He, W. Lin, R. Mao, C. Maple, and S. Jarvis. SAFA: a semi-asynchronous protocol for fast federated learning with low overhead. *IEEE Transactions on Computers*, 70(5):655–668, May 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2023:RBL

[WHL+23] Wei-Chen Wang, Chien-Chung Ho, Yung-Chun Li, Liang-Chi Chen, and Yu-Ming Chang. Reaping both latency and reliability benefits with elaborate sanitization design for 3D TLC NAND flash. *IEEE Transactions on Computers*, 72(11):3029–3041, November 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2022:DTO

[WHM+22] Jin Wang, Jia Hu, Geyong Min, Wenhan Zhan, Albert Y. Zomaya, and Nektarios Georgalas. Dependent task offloading for edge computing based on deep reinforcement learning. *IEEE Transactions on Computers*, 71(10):2449–2461, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2024:MAA

[WHQ+24] Juzhen Wang, Yiqi Hu, Yiren Qi, Ziwen Peng, and Changjia Zhou. Mitigating adversarial attacks based on denoising & reconstruction with finance authentication system case study. *IEEE Transactions on Computers*, 73(2): 314–326, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wu:2022:EBF

[WHY+22] Yuhan Wu, Jintao He, Shen Yan, Jianyu Wu, Tong Yang, Olivier Ruas, Gong Zhang, and Bin Cui. Elastic Bloom filter: Deletable and expandable filter using elastic fingerprints. *IEEE Transactions on Computers*, 71(4):984–991, April 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wu:2020:MTM

[WJL+20] C. Wu, C. Ji, Q. Li, C. Gao, R. Pan, C. Fu, L. Shi, and C. J. Xue. Maximizing I/O throughput and minimizing performance variation via reinforcement learning based I/O merging for SSDs. *IEEE Transactions on Computers*, 69(1):72–86, January 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2024:GFE

[WJLC24] Ting Wang, Xin Jiang, Qin Li, and Haibin Cai. GreedW: a flexible and efficient decentralized framework for distributed machine learning. *IEEE Transactions on Computers*, 73(3):801–814, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2020:AVC

[WL20] B. Wang and Z. Lu. Advance virtual channel reservation. *IEEE Transactions*

on Computers, 69(9):1320–1334, September 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wu:2024:TSF

[WLC+24] Mingyu Wu, Zhe Li, Haibo Chen, Binyu Zang, Shaojun Wang, Lei Yu, Sanhong Li, and Haitao Song. Toward an SGX-friendly Java runtime. *IEEE Transactions on Computers*, 73(1):44–57, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2022:DAA

[WLD+22] Yang Wang, Min Li, Hao Dai, Kenneth B. Kent, Kejiang Ye, and Chengzhong Xu. Deadlock avoidance algorithms for recursion-tree modeled requests in parallel executions. *IEEE Transactions on Computers*, 71(9): 2073–2087, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2021:RPO

[WLQ+21] Hai Wang, Wei Li, Wenjie Qi, Diya Tang, Letian Huang, and He Tang. Runtime performance optimization of 3-D microprocessors in dark silicon. *IEEE Transactions on Computers*, 70(10):1539–1554, October 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2020:PAH

[WLR20] S. Wang, X. Li, and R. Ruiz. Performance analysis for heterogeneous cloud servers using queueing theory. *IEEE Transactions on Computers*, 69(4): 563–576, April 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2021:EEI

[WLW+21] Tian Wang, Yucheng Lu, Jianhuang Wang, Hong-Ning Dai, Xi Zheng, and Weijia Jia. EIHDP: Edge-intelligent hierarchical dynamic pricing based on cloud-edge-client collaboration for IoT systems. *IEEE Transactions on Computers*, 70(8):1285–1298, August 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2022:AAA

[WLW+22a] Jihe Wang, Jun Liu, Danghui Wang, Jianfeng An, and Xiaoya Fan. An automatic-addressing architecture with fully serialized access in racetrack memory for energy-efficient CNNs. *IEEE Transactions on Computers*, 71(1): 235–250, January 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2022:MRR

[WLW+22b] Jihe Wang, Jun Liu, Danghui Wang, Shengbing Zhang,

and Xiaoya Fan. MemUnison: a Racetrack-ReRAM-Combined pipeline architecture for energy-efficient in-memory CNNs. *IEEE Transactions on Computers*, 71(12): 3281–3294, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2022:CTM

[WLW+22c] Yuze Wang, Peng Liu, Weidong Wang, Xiaohang Wang, and Yingtao Jiang. On a consistency testing model and strategy for revealing RISC processor's dark instructions and vulnerabilities. *IEEE Transactions on Computers*, 71(7):1586–1597, July 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2023:MBE

[WLY+23] Yi Wang, Jing Liao, Jing Yang, Zhengda Li, Chenlin Ma, and Rui Mao. MetaBlock: Exploiting cross-layer and direct storage access for decentralized blockchain storage systems. *IEEE Transactions on Computers*, 72(7): 2052–2064, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wu:2021:TDM

[WLZ+21] F. Wu, B. Li, B. Zhang, Z. Cao, J. Diehl, H. Wen, and D. H. C. Du. TrackLace: Data management for interlaced magnetic recording. *IEEE Transactions on Computers*, 70(3):347–358, March 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2023:EML

[WLZ+23] Hengrui Wang, Huiping Lin, Zheng Zhong, Tong Yang, and Muhammad Shahzad. Enhanced machine learning sketches for network measurements. *IEEE Transactions on Computers*, 72(4):957–970, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2024:CMB

[WMH+24] Ruixuan Wang, Sabrina Hassan Moon, Xiaobo Sharon Hu, Xun Jiao, and Dayane Reis. A computing-in-memory-based one-class hyperdimensional computing model for outlier detection. *IEEE Transactions on Computers*, 73(6): 1559–1574, June 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2023:TSN

[WNL+23] Ziheng Wang, Farzad Niknia, Shanshan Liu, Pedro Reviriego, Paolo Montuschi, and Fabrizio Lombardi. Tolerance of Siamese Networks (SNs) to memory errors: Analysis and design. *IEEE Transactions on Computers*, 72(4):1136–1149,

April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wu:2022:PTP

[WNP+22] Hao Wu, Krishnendra Nathella, Matthew Pabst, Dam Sunwoo, Akanksha Jain, and Calvin Lin. Practical temporal prefetching with compressed on-chip metadata. *IEEE Transactions on Computers*, 71(11):2858–2871, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2023:ASE

[WPL+23] Yuchao Wang, Yanguo Peng, Ximeng Liu, Zuobin Ying, Jiangtao Cui, Dongyao Niu, and Xiaofang Xia. aChain: a SQL-empowered analytical blockchain as a database. *IEEE Transactions on Computers*, 72(11):3099–3112, November 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wu:2022:CMT

[WRT+22] Lizhou Wu, Siddharth Rao, Mottaqiallah Taouil, Erik Jan Marinissen, Gouri Sankar Kar, and Said Hamdioui. Characterization, modeling, and test of intermediate state defects in STT-MRAMs. *IEEE Transactions on Computers*, 71(9): 2219–2233, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2023:PDP

[WRW+23] Dan Wang, Ju Ren, Zhibo Wang, Yichuan Wang, and Yaoxue Zhang. PrivAim: a dual-privacy preserving and quality-aware incentive mechanism for federated learning. *IEEE Transactions on Computers*, 72(7):1913–1927, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wills:2020:GEI

[WS20] L. W. Wills and K. Swaminathan. Guest editorial: *IEEE TC* special issue on domain-specific architectures for emerging applications. *IEEE Transactions on Computers*, 69(8):1096–1098, August 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wistoff:2023:SPC

[WSG+23] Nils Wistoff, Moritz Schneider, Frank K. Gürkaynak, Gernot Heiser, and Luca Benini. Systematic prevention of on-core timing channels by full temporal partitioning. *IEEE Transactions on Computers*, 72(5):1420–1430, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wu:2023:TIE

[WSHJ23] Wenchao Wu, Xuanhua Shi, Ligang He, and Hai Jin. TurboGNN: Improving the

end-to-end performance for sampling-based GNN training on GPUs. *IEEE Transactions on Computers*, 72(9): 2571–2584, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Willis:2024:PCE

[WSM+24] Benjamin R. Willis, Aviral Shrivastava, Joshua Mack, Shail Dave, Chaitali Chakrabarti, and John Brunhaver. `Cyclebite`: Extracting task graphs from unstructured compute-programs. *IEEE Transactions on Computers*, 73(1):221–234, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2020:CSH

[WSS+20] Y. Wang, Y. Shen, C. Su, J. Ma, L. Liu, and X. Dong. CryptSQLite: SQLite with high data security. *IEEE Transactions on Computers*, 69(5):666–678, May 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic). URL `https://ieeexplore.ieee.org/document/8946540`.

Wang:2024:HCC

[WTL+24] Hao Wang, Bo Tang, Chi Harold Liu, Shangqin Mao, Jiahong Zhou, Zipeng Dai, Yaqi Sun, Qianlong Xie, Xingxing Wang, and Dong Wang. HiBid: a cross-channel constrained bidding system with budget allocation by hierarchical offline deep reinforcement learning. *IEEE Transactions on Computers*, 73(3):815–828, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wei:2021:MMD

[WWC21] T. Wei, C. Wang, and C. W. Chen. Modularized morphing of deep convolutional neural networks: a graph approach. *IEEE Transactions on Computers*, 70(2):305–315, February 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2023:MAT

[WWJ+23] Shengjie Wang, Xiaohang Wang, Yingtao Jiang, Amit Kumar Singh, Mei Yang, and Letian Huang. Modeling and analysis of thermal covert channel attacks in many-core systems. *IEEE Transactions on Computers*, 72(2): 494–500, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wong:2023:KNS

[WWL+23] Zheng-Yan Wong, Denis C.-K. Wong, Wai-Kong Lee, Kai-Ming Mok, Wun-She Yap, and Ayesha Khalid. KaratSaber: New speed records for Saber polynomial multiplication using efficient Karatsuba FPGA architecture. *IEEE Transactions on Computers*, 72(7):

1830–1842, July 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2023:EHE

[WWM+23] Lening Wang, Qiyu Wan, Peixun Ma, Jing Wang, Minsong Chen, Shuaiwen Leon Song, and Xin Fu. Enabling high-efficient ReRAM-based CNN training via exploiting crossbar-level insignificant writing elimination. *IEEE Transactions on Computers*, 72(11):3218–3230, November 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wen:2022:POM

[WWS+22] Shengyan Wen, Xiaohang Wang, Amit Kumar Singh, Yingtao Jiang, and Mei Yang. Performance optimization of many-core systems by exploiting task migration and dark core allocation. *IEEE Transactions on Computers*, 71(1): 92–106, January 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2024:OCC

[WWX+24] Shihang Wang, Xingbo Wang, Zhiyuan Xu, Bingzhen Chen, Chenxi Feng, Qi Wang, and Terry Tao Ye. Optimizing CNN computation using RISC-V custom instruction sets for edge platforms. *IEEE Transactions on Computers*, 73(5):1371–1384, May 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2023:OGB

[WXL+23] Pengyu Wang, Cheng Xu, Chao Li, Jing Wang, Taolei Wang, Lu Zhang, Xiaofeng Hou, and Minyi Guo. Optimizing GPU-based graph sampling and random walk for efficiency and scalability. *IEEE Transactions on Computers*, 72(9):2508–2521, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wu:2024:FAR

[WYB+24] Chunshu Wu, Chen Yang, Sahan Bandara, Tong Geng, Anqi Guo, Pouya Haghi, Ang Li, and Martin Herbordt. FPGA-accelerated range-limited molecular dynamics. *IEEE Transactions on Computers*, 73(6):1544–1558, June 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2022:PIR

[WYSL22] Hao Wang, Xiangyu Yang, Yuanming Shi, and Jun Lin. A proximal iteratively reweighted approach for efficient network sparsification. *IEEE Transactions on Computers*, 71(1):185–196, January 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2022:TCA

[WYZ+22] Xueyan Wang, Jianlei Yang, Yinglin Zhao, Xiaotao Jia, Rong Yin, Xuhang Chen, Gang Qu, and Weisheng Zhao. Triangle counting accelerations: From algorithm to in-memory computing architecture. *IEEE Transactions on Computers*, 71(10):2462–2472, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2023:HCE

[WZCM23] Guang Wang, Ziyuan Zhu, Xu Cheng, and Dan Meng. A high-coverage and efficient instruction-level testing approach for x86 processors. *IEEE Transactions on Computers*, 72(11):3203–3217, November 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

West:2020:TUS

[WZD+20] B. L. West, J. Zhou, R. G. Dreslinksi, O. D. Kripfgans, J. B. Fowlkes, C. Chakrabarti, and T. F. Wenisch. Tetris: Using software/hardware codesign to enable handheld, physics-limited 3D plane-wave ultrasound imaging. *IEEE Transactions on Computers*, 69(8):1209–1220, August 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2023:ODP

[WZG+23] Haojie Wang, Jidong Zhai, Mingyu Gao, Feng Zhang, Tuowei Wang, Zixuan Ma, Shizhi Tang, Liyan Zheng, Wen Wang, Kaiyuan Rong, Yuanyong Chen, and Zhihao Jia. Optimizing DNNs with partially equivalent transformations and automated corrections. *IEEE Transactions on Computers*, 72(12):3546–3560, December 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wu:2022:IIA

[WZGT22] Yulong Wu, Weizhe Zhang, Nan Guan, and Yue Tang. Improving interference analysis for real-time DAG tasks under partitioned scheduling. *IEEE Transactions on Computers*, 71(7):1495–1506, July 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2023:OSD

[WZH+23] Ne Wang, Ruiting Zhou, Ling Han, Hao Chen, and Zongpeng Li. Online scheduling of distributed machine learning jobs for incentivizing sharing in multi-tenant systems. *IEEE Transactions on Computers*, 72(3):653–667, March 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wei:2024:RBA

[WZJ+24] Zheng Wei, Xingjun Zhang, Zeyu Ji, Jingbo Li, and Jia Wei. Revisit and benchmarking of automated quantization toward fair comparison. *IEEE Transactions on Computers*, 73(1):18–29, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2022:CPC

[WZSL22] Yongzhi Wang, Yu Zou, Yulong Shen, and Yao Liu. CFHider: Protecting control flow confidentiality with Intel SGX. *IEEE Transactions on Computers*, 71(9): 2128–2141, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2023:HOS

[WZW+23] Yu Wang, You Zhou, Fei Wu, Yu Zhong, Jian Zhou, Zhonghai Lu, Shu Li, Zhengyong Wang, and Changsheng Xie. Holistic and opportunistic scheduling of background I/Os in flash-based SSDs. *IEEE Transactions on Computers*, 72(11):3127–3139, November 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2022:PVE

[WZX+22] Tianchen Wang, Jiawei Zhang, Jinjun Xiong, Song Bian, Zheyu Yan, Meiping Huang, Jian Zhuang, Takashi Sato, Xiaowei Xu, and Yiyu Shi. `VisualNet`: An end-to-end human visual system inspired framework to reduce inference latency of deep neural networks. *IEEE Transactions on Computers*, 71(11):2717–2727, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xiao:2020:SAG

[XAP20] J. Xiao, S. Altmeyer, and A. D. Pimentel. Schedulability analysis of global scheduling for multicore systems with shared caches. *IEEE Transactions on Computers*, 69(10): 1487–1499, October 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xin:2022:HTH

[XCZ+22] Yao Xin, Donglong Chen, Chongyang Zeng, Weichen Zhang, Yi Wang, and Ray C. C. Cheung. High throughput hardware/software heterogeneous system for RRPN-based scene text detection. *IEEE Transactions on Computers*, 71(7):1507–1521, July 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xia:2024:SSC

[XGZ+24] Zhihua Xia, Qi Gu, Wenhao Zhou, Lizhi Xiong, Jian

Weng, and Naixue Xiong. STR: Secure computation on additive shares using the share-transform-reveal strategy. *IEEE Transactions on Computers*, 73(2):340–352, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xia:2022:CPT

[XHY+22] Yubin Xia, Zhichao Hua, Yang Yu, Jinyu Gu, Haibo Chen, Binyu Zang, and Haibing Guan. Colony: a privileged trusted execution environment with extensibility. *IEEE Transactions on Computers*, 71(2):479–492, February 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Hu:2024:MSI

[xHzLH+24] He xuan Hu, Zhen zhou Lin, Qiang Hu, Ye Zhang, Wei Wei, and Wei Wang. Multi-source information fusion based DLaaS for traffic flow prediction. *IEEE Transactions on Computers*, 73(4): 994–1003, April 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xiong:2021:LIT

[XKS21] W. Xiong, S. Katzenbeisser, and J. Szefer. Leaking information through cache LRU states in commercial processors and secure caches. *IEEE Transactions on Computers*, 70(4):511–523, April 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xu:2022:DLF

[XLL+22] Liangliang Xu, Min Lyu, Zhipeng Li, Cheng Li, and Yinlong Xu. A data layout and fast failure recovery scheme for distributed storage systems with mixed erasure codes. *IEEE Transactions on Computers*, 71(8): 1740–1754, August 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xie:2024:GNN

[XLS+24] Guorui Xie, Qing Li, Zhenning Shi, Hanbin Fang, Shengpeng Ji, Yong Jiang, Zhenhui Yuan, Lianbo Ma, and Mingwei Xu. Generating neural networks for diverse networking classification tasks via hardware-aware neural architecture search. *IEEE Transactions on Computers*, 73(2): 481–494, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xu:2020:AGN

[XLW+20] D. Xu, C. Liu, Y. Wang, K. Tu, B. He, and L. Zhang. Accelerating generative neural networks on unmodified deep learning processors: a software approach. *IEEE Trans-*

actions on Computers, 69(8): 1172–1184, August 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xi:2023:PSS

[XLWO23] Xiaodan Xi, Ge Li, Ye Wang, and Michael Orshansky. A provably secure strong PUF based on LWE: Construction and implementation. *IEEE Transactions on Computers*, 72(2):346–359, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xu:2022:CCB

[XLY+22] Minghui Xu, Shuo Liu, Dongxiao Yu, Xiuzhen Cheng, Shaoyong Guo, and Jiguo Yu. CloudChain: a cloud blockchain using shared memory consensus and RDMA. *IEEE Transactions on Computers*, 71(12):3242–3253, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xiao:2021:PCD

[XNB21] Yao Xiao, Shahin Nazarian, and Paul Bogdan. Plasticity-on-chip design: Exploiting self-similarity for data communications. *IEEE Transactions on Computers*, 70(6):950–962, June 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xue:2023:BBF

[XNL+23] Liang Xue, Jianbing Ni, Dongxiao Liu, Xiaodong Lin, and Xuemin Shen. Blockchain-based fair and fine-grained data trading with privacy preservation. *IEEE Transactions on Computers*, 72(9):2440–2453, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xie:2020:SSS

[XNLX20] J. Y. Xie, G. Nong, B. Lao, and W. Xu. Scalable suffix sorting on a multicore machine. *IEEE Transactions on Computers*, 69(9): 1364–1375, September 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xu:2022:MSC

[XPR+22] Zhuang Xu, Owen Pemberton, Sujoy Sinha Roy, David Oswald, Wang Yao, and Zhiming Zheng. Magnifying side-channel leakage of lattice-based cryptosystems with chosen ciphertexts: the case study of Kyber. *IEEE Transactions on Computers*, 71(9): 2163–2176, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xu:2022:DAP

[XQC+22] Fei Xu, Yiling Qin, Li Chen, Zhi Zhou, and Fangming Liu.

DNN: Achieving predictable distributed DNN training with serverless architectures. *IEEE Transactions on Computers*, 71(2):450–463, February 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xiang:2020:BNC

[XST20] X. Xiang, P. Sigdel, and N. Tzeng. Bufferless network-on-chips with bridged multiple subnetworks for deflection reduction and energy savings. *IEEE Transactions on Computers*, 69(4):577–590, April 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xiao:2022:BRB

[XSYL22] Jie Xiao, Zhanhui Shi, Xuhua Yang, and Jungang Lou. BM-RCGL: Benchmarking approach for localization of reliability-critical gates in combinational logic blocks. *IEEE Transactions on Computers*, 71(5):1063–1076, May 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xu:2023:REE

[XTWG23] Ke Xu, Ming Tang, Han Wang, and Sylvain Guilley. Reverse-engineering and exploiting the frontend bus of Intel processor. *IEEE Transactions on Computers*, 72(2): 360–373, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xu:2024:RAG

[Xu24] Jianfeng Xu. Research and application of general information measures based on a unified model. *IEEE Transactions on Computers*, 73(3): 915–927, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xu:2024:AAD

[XWL+24] Zichuan Xu, Lin Wang, Weifa Liang, Qiufen Xia, Wenzheng Xu, Pan Zhou, and Omer F. Rana. Age-aware data selection and aggregator placement for timely federated continual learning in mobile edge computing. *IEEE Transactions on Computers*, 73(2): 466–480, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xiao:2021:POQ

[XWP+21] Siyuan Xiao, Xiaohang Wang, Maurizio Palesi, Amit Kumar Singh, Liang Wang, and Terrence Mak. On performance optimization and quality control for approximate-communication-enabled networks-on-chip. *IEEE Transactions on Computers*, 70(11):1817–1830, November 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xu:2024:OSB

[XXJ+24] Guangquan Xu, Guohua Xin, Litao Jiao, Jian Liu, Shaoying Liu, Meiqi Feng, and Xi Zheng. OFEI: a semi-black-box Android adversarial sample attack framework against DLaaS. *IEEE Transactions on Computers*, 73(4):956–969, April 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xu:2023:EAE

[XXL+23] Hao Xu, Bin Xiao, Xiulong Liu, Li Wang, Shan Jiang, Weilian Xue, Jianrong Wang, and Keqiu Li. Empowering authenticated and efficient queries for STK transaction-based blockchains. *IEEE Transactions on Computers*, 72(8):2209–2223, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xue:2023:SES

[XYM23] Zihui Xue, Yuedong Yang, and Radu Marculescu. SUGAR: Efficient subgraph-level training via resource-aware graph partitioning. *IEEE Transactions on Computers*, 72(11): 3167–3177, November 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xu:2023:SBE

[XZC+23] Minghui Xu, Zongrui Zou, Ye Cheng, Qin Hu, Dongxiao Yu, and Xiuzhen Cheng. SPDL: a blockchain-enabled secure and privacy-preserving decentralized learning system. *IEEE Transactions on Computers*, 72(2):548–558, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xu:2021:AAV

[XZL+21] Zichuan Xu, Zhiheng Zhang, John C. S. Lui, Weifa Liang, Qiufen Xia, Pan Zhou, Wenzheng Xu, and Guowei Wu. Affinity-aware VNF placement in mobile edge clouds via leveraging GPUs. *IEEE Transactions on Computers*, 70(12):2234–2248, December 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Xu:2023:SSA

[XZL+23] Zichuan Xu, Lizhen Zhou, Weifa Liang, Qiufen Xia, Wenzheng Xu, Wenhao Ren, Haozhe Ren, and Pan Zhou. Stateful serverless application placement in MEC with function and state dependencies. *IEEE Transactions on Computers*, 72(9):2701–2716, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yazdani:2020:LLA

[YAG20] R. Yazdani, J. Arnau, and A. González. LAWS: Locality-AWare Scheme for automatic

speech recognition. *IEEE Transactions on Computers*, 69(8):1197–1208, August 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yayla:2022:FBB

[YBG+22] Mikail Yayla, Sebastian Buschjäger, Aniket Gupta, Jian-Jia Chen, Jörg Henkel, Katharina Morik, Kuan-Hsun Chen, and Hussam Amrouch. FeFET-based binarized neural networks under temperature-dependent bit errors. *IEEE Transactions on Computers*, 71(7): 1681–1695, July 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yu:2021:MMP

[YBW21] Chao Yu, Yuebin Bai, and Rui Wang. MIPSGPU: Minimizing pipeline stalls for GPUs with non-blocking execution. *IEEE Transactions on Computers*, 70(11):1804–1816, November 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yang:2020:RFC

[YCKW20] M. Yang, Y. Chang, T. Kuo, and C. Wu. Request flow coordination for growing-scale solid-state drives. *IEEE Transactions on Computers*, 69(6):832–843, June 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yu:2024:GER

[YCL+24] Dongxiao Yu, Ruopeng Chen, Xin Li, Mengbai Xiao, Guanghui Zhang, and Yao Liu. A GPU-enabled real-time framework for compressing and rendering volumetric videos. *IEEE Transactions on Computers*, 73(3):789–800, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yang:2024:ONA

[YCS+24] Da Yang, Zhenglong Cui, Hao Sheng, Rongshan Chen, Ruixuan Cong, Shuai Wang, and Zhang Xiong. An occlusion and noise-aware stereo framework based on light field imaging for robust disparity estimation. *IEEE Transactions on Computers*, 73(3): 764–777, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yuan:2024:DLL

[YCY+24] Yuan Yuan, Shuzhen Chen, Dongxiao Yu, Zengrui Zhao, Yifei Zou, Lizhen Cui, and Xiuzhen Cheng. Distributed learning for large-scale models at edge with privacy protection. *IEEE Transactions on Computers*, 73(4):1060–1070, April 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yang:2022:SEN

[YFC+22] Jianlei Yang, Wenzhi Fu, Xingzhou Cheng, Xucheng Ye, Pengcheng Dai, and Weisheng Zhao. S2 Engine: a novel systolic architecture for sparse convolutional neural networks. *IEEE Transactions on Computers*, 71(6):1440–1452, June 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Ye:2023:CIC

[YGW+23] Yuejin Ye, Heng Guo, Bingzhuo Wang, Pengxiao Wang, Dexun Chen, and Fang Li. Coupled incomplete Cholesky and Jacobi preconditioned conjugate gradient on the new generation of Sunway many-core architecture. *IEEE Transactions on Computers*, 72(11):3326–3339, November 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yu:2020:MSM

[YH20] D. K. Yu and J. Hsieh. A management scheme of multi-level retention-time queues for improving the endurance of flash-memory storage devices. *IEEE Transactions on Computers*, 69(4):549–562, April 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yan:2020:IAT

[YHC+20] A. Yan, Y. Hu, J. Cui, Z. Chen, Z. Huang, T. Ni, P. Girard, and X. Wen. Information assurance through redundant design: A novel TNU error-resilient latch for harsh radiation environment. *IEEE Transactions on Computers*, 69(6):789–799, June 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yu:2021:DBQ

[YHV+21] H. Yu, Y. Ha, B. Veeravalli, F. Chen, and H. El-Sayed. DVFS-based quality maximization for adaptive applications with diminishing return. *IEEE Transactions on Computers*, 70(5):803–816, May 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yao:2020:PEP

[YL20] Y. Yao and Z. Lu. Pursuing extreme power efficiency with PPCC guided NoC DVFS. *IEEE Transactions on Computers*, 69(3):410–426, March 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yu:2021:SDD

[YLC+21] Y. Yu, Y. Li, S. Che, N. K. Jha, and W. Zhang. Software-defined design space exploration for an efficient DNN accelerator architecture. *IEEE Transactions on Computers*, 70(1):45–56, January 2021. CODEN ITCOB4. ISSN 0018-

9340 (print), 1557-9956 (electronic).

Yao:2023:THP

[YLG+23] Lulu Yao, Yongkun Li, Fan Guo, Si Wu, Yinlong Xu, and John C. S. Lui. Towards high performance and efficient memory deduplication via mixed pages. *IEEE Transactions on Computers*, 72(4): 926–940, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yu:2023:RSC

[YLHL23] Leilei Yu, Sian-Jheng Lin, Hanxu Hou, and Zhengrui Li. Reed–Solomon coding algorithms based on Reed–Muller transform for any number of parities. *IEEE Transactions on Computers*, 72(9): 2677–2688, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yu:2020:FEA

[YLL+20] L. Yu, Z. Lin, S. Lin, Y. S. Han, and N. Yu. Fast encoding algorithms for Reed–Solomon codes with between four and seven parity symbols. *IEEE Transactions on Computers*, 69(5):699–705, May 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic). URL `https://ieeexplore.ieee.org/document/8949691`.

Yao:2024:ABS

[YLL+24] Lulu Yao, Yongkun Li, Patrick P. C. Lee, Xiaoyang Wang, and Yinlong Xu. AdaptMD: Balancing space and performance in NUMA architectures with adaptive memory deduplication. *IEEE Transactions on Computers*, 73(6): 1588–1602, June 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yao:2023:EOG

[YLT+23] Jianguo Yao, Qiumin Lu, Run Tian, Keqin Li, and Haibing Guan. An economy-oriented GPU virtualization with dynamic and adaptive oversubscription. *IEEE Transactions on Computers*, 72(5): 1371–1383, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yang:2021:PRA

[YNJS21] L. Yang, B. Nie, A. Jog, and E. Smirni. Practical resilience analysis of GPGPU applications in the presence of single- and multi-bit faults. *IEEE Transactions on Computers*, 70(1):30–44, January 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yao:2024:PFT

[YPD+24] Dezhong Yao, Wanning Pan, Yutong Dai, Yao Wan, Xi-

aofeng Ding, Chen Yu, Hai Jin, Zheng Xu, and Lichao Sun. FedGKD: Toward heterogeneous federated learning via global knowledge distillation. *IEEE Transactions on Computers*, 73(1):3–17, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yin:2021:MMT

[YTD+21] J. Yin, Y. Tang, S. Deng, B. Zheng, and A. Y. Zomaya. MUSE: a multi-tierd and SLA-driven deduplication framework for cloud storage systems. *IEEE Transactions on Computers*, 70(5):759–774, May 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yang:2021:MID

[YWC+21] M.-C. Yang, C.-F. Wu, S.-H. Chen, Y.-L. Lin, C.-W. Chang, and Y.-H. Chang. On minimizing internal data migrations of flash devices via lifetime-retention harmonization. *IEEE Transactions on Computers*, 70(3): 428–439, March 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yu:2024:FLH

[YWC+24] Tianyang Yu, Bi Wu, Ke Chen, Gong Zhang, and Weiqiang Liu. Fully learnable hyperdimensional computing framework with ultratiny accelerator for edge-side applications. *IEEE Transactions on Computers*, 73(2):574–585, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yilmaz:2023:MMC

[YWP+23] Baki Berkay Yilmaz, Frank Werner, Sunjae Y. Park, Elvan Mert Ugurlu, Erik Jorgensen, Milos Prvulovic, and Alenka Zaji . MarCNNet: a Markovian convolutional neural network for malware detection and monitoring multicore systems. *IEEE Transactions on Computers*, 72(4): 1122–1135, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yang:2023:HDA

[YWX+23] Zichao Yang, Heng Wu, Yuanjia Xu, Yuewen Wu, Hua Zhong, and Wenbo Zhang. Hydra: Deadline-aware and efficiency-oriented scheduling for deep learning jobs on heterogeneous GPUs. *IEEE Transactions on Computers*, 72(8):2224–2236, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yang:2024:CCD

[YYCR24] Jin Yang, Zhenkun Yang, Jeremy Casas, and Sandip Ray. Correct-by-construction design of custom accelerator microarchitectures. *IEEE*

Transactions on Computers, 73(1):278–291, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yu:2024:ESD

[YYQ+24] Jiguo Yu, Biwei Yan, Huayi Qi, Shengling Wang, and Wei Cheng. An efficient and secure data sharing scheme for edge-enabled IoT. *IEEE Transactions on Computers*, 73(1): 178–191, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yan:2023:LSS

[YZJ23] Baoyue Yan, Jinbin Zhu, and Bo Jiang. Limon: a scalable and stable key–value engine for fast NVMe devices. *IEEE Transactions on Computers*, 72(10):3017–3028, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Yan:2024:FPB

[YZX+24] Biwei Yan, Hongliang Zhang, Minghui Xu, Dongxiao Yu, and Xiuzhen Cheng. FedRFQ: Prototype-based federated learning with reduced redundancy, minimal failure, and enhanced quality. *IEEE Transactions on Computers*, 73(4):1086–1098, April 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zagalo:2023:RTS

[ZABHCG23] Kevin Zagalo, Yasmina Abdeddaïm, Avner Bar-Hen, and Liliana Cucu-Grosjean. Response time stochastic analysis for fixed-priority stable real-time systems. *IEEE Transactions on Computers*, 72(1): 3–14, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zervakis:2022:TAD

[ZAS+22] Georgios Zervakis, Iraklis Anagnostopoulos, Sami Salamin, Ourania Spantidi, Isai Roman-Ballesteros, Jörg Henkel, and Hussam Amrouch. Thermal-aware design for approximate DNN accelerators. *IEEE Transactions on Computers*, 71(10):2687–2697, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zijlstra:2022:LBC

[ZBT22] Timo Zijlstra, Karim Bigou, and Arnaud Tisserand. Lattice-based cryptosystems on FPGA: Parallelization and comparison using HLS. *IEEE Transactions on Computers*, 71(8): 1916–1927, August 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhao:2024:VIL

[ZC24] Ying Zhao and Jinjun Chen. Vector-indistinguishability: Lo-

cation dependency based privacy protection for successive location data. *IEEE Transactions on Computers*, 73(4): 970–979, April 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zini:2023:AAM

[ZCB23] Matteo Zini, Daniel Casini, and Alessandro Biondi. Analyzing ARM's MPAM from the perspective of time predictability. *IEEE Transactions on Computers*, 72(1): 168–182, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhao:2023:ICU

[ZCC+23] Han Zhao, Weihao Cui, Quan Chen, Jingwen Leng, Deze Zeng, and Minyi Guo. Improving cluster utilization through adaptive resource management for deep neural network and CPU jobs colocation. *IEEE Transactions on Computers*, 72(12):3458–3472, December 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhao:2023:IEI

[ZCCG23] Han Zhao, Weihao Cui, Quan Chen, and Minyi Guo. ISPA: Exploiting intra-SM parallelism in GPUs via fine-grained resource management. *IEEE Transactions on Computers*, 72(5):1473–1487, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2022:RBM

[ZCD+22] Jiarui Zhang, Yukun Cheng, Xiaotie Deng, Bo Wang, Jan Xie, Yuanyuan Yang, and Mengqian Zhang. A reputation-based mechanism for transaction processing in blockchain systems. *IEEE Transactions on Computers*, 71(10):2423–2434, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zoni:2020:ADC

[ZCF20] D. Zoni, L. Cremona, and W. Fornaciari. All-digital control-theoretic scheme to optimize energy budget and allocation in multi-cores. *IEEE Transactions on Computers*, 69(5):706–721, May 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic). URL `https://ieeexplore.ieee.org/document/8949548`.

Zhang:2024:EEA

[ZCH+24] Jianting Zhang, Wuhui Chen, Zicong Hong, Gang Xiao, Linlin Du, and Zibin Zheng. Efficient execution of arbitrarily complex cross-shard contracts for blockchain sharding. *IEEE Transactions on Computers*, 73(5):1190–1205, May 2024. CODEN ITCOB4. ISSN

0018-9340 (print), 1557-9956 (electronic).

Zhang:2020:FFM

[ZCJ+20] C. Zhang, Q. Cao, H. Jiang, W. Zhang, J. Li, and J. Yao. A fast filtering mechanism to improve efficiency of large-scale video analytics. *IEEE Transactions on Computers*, 69(6): 914–928, June 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2020:NFM

[ZCK20] H. Zhang, D. Chen, and S. Ko. New flexible multiple-precision multiply-accumulate unit for deep neural network training and inference. *IEEE Transactions on Computers*, 69(1):26–38, January 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2022:HRD

[ZCP22] Bo Zhang, Zeming Cheng, and Massoud Pedram. High-radix design of a scalable Montgomery modular multiplier with low latency. *IEEE Transactions on Computers*, 71(2):436–449, February 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2023:IMM

[ZCP23] Bo Zhang, Zeming Cheng, and Massoud Pedram. An iterative Montgomery modular multiplication algorithm with low area–time product. *IEEE Transactions on Computers*, 72(1):236–249, January 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2022:GCO

[ZCR22] Jiaqi Zhang, Xiangru Chen, and Sandip Ray. GCONV Chain: Optimizing the whole-life cost in end-to-end CNN acceleration. *IEEE Transactions on Computers*, 71(9): 2300–2312, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2023:AAI

[ZCR23] Jiaqi Zhang, Xiangru Chen, and Sandip Ray. AINNS: All-inclusive neural network scheduling via accelerator formalization. *IEEE Transactions on Computers*, 72(2): 559–571, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zokaee:2023:PSS

[ZCSJ23] Farzaneh Zokaee, Fan Chen, Guangyu Sun, and Lei Jiang. `Sky-Sorter`: a processing-in-memory architecture for large-scale sorting. *IEEE Transactions on Computers*, 72(2): 480–493, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhao:2021:PAP

[ZCW+21] Shuai Zhao, Wanli Chang, Ran Wei, Weichen Liu, Nan Guan, Alan Burns, and Andy Wellings. Priority assignment on partitioned multiprocessor systems with shared resources. *IEEE Transactions on Computers*, 70(7):1006–1018, July 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2023:AEM

[ZCWC23] Sunrui Zhang, Xiaole Cui, Feng Wei, and Xiaoxin Cui. An area-efficient in-memory implementation method of arbitrary Boolean function based on SRAM array. *IEEE Transactions on Computers*, 72(12):3416–3430, December 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhou:2020:PPD

[ZCX+20] J. Zhou, Y. Chen, W. Xie, D. Dai, S. He, and W. Wang. PRS: A pattern-directed replication scheme for heterogeneous object-based storage. *IEEE Transactions on Computers*, 69(4):591–605, April 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhong:2023:MBI

[ZCX+23] Fangtian Zhong, Zekai Chen, Minghui Xu, Guoming Zhang, Dongxiao Yu, and Xiuzhen Cheng. Malware-on-the-brain: Illuminating malware byte codes with images for malware classification. *IEEE Transactions on Computers*, 72(2): 438–451, February 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhong:2024:MCA

[ZCY+24] Fangtian Zhong, Xiuzhen Cheng, Dongxiao Yu, Bei Gong, Shuaiwen Song, and Jiguo Yu. MalFox: Camouflaged adversarial malware example generation based on Conv-GANs against black-box detectors. *IEEE Transactions on Computers*, 73(4):980–993, April 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2022:TQA

[ZCZ+22] Wei Zhang, Quan Chen, Ningxin Zheng, Weihao Cui, Kaihua Fu, and Minyi Guo. Toward QoS-awareness and improved utilization of spatial multitasking GPUs. *IEEE Transactions on Computers*, 71(4):866–879, April 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhou:2023:DDH

[ZCZW23] Jiang Zhou, Yong Chen, Mai Zheng, and Weiping Wang. Data distribution for heterogeneous storage systems. *IEEE Transactions on Computers*,

72(6):1747–1762, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhao:2022:LML

[ZDV+22] Jiawei Zhao, Steve Dai, Rangharajan Venkatesan, Brian Zimmer, Mustafa Ali, Ming-Yu Liu, Brucek Khailany, William J. Dally, and Anima Anandkumar. LNS-Madam: Low-precision training in logarithmic number system using multiplicative weight update. *IEEE Transactions on Computers*, 71(12):3179–3190, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhu:2023:VAQ

[ZDW+23] Pengcheng Zhu, Weiping Ding, Lihua Wei, Xueyun Cheng, Zhijin Guan, and Shiguang Feng. A variation-aware quantum circuit mapping approach based on multi-agent cooperation. *IEEE Transactions on Computers*, 72(8):2237–2249, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhu:2023:PPT

[ZDY+23] Xinghui Zhu, Zijie Di, Qingsong Yao, Xuewen Dong, Jiandong Wang, and Yulong Shen. Performance-power tradeoff in heterogeneous SaaS clouds with trustworthiness guarantee. *IEEE Transactions on Computers*, 72(6):1554–1567, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zeng:2023:SMD

[ZDZ+23] Shulin Zeng, Guohao Dai, Niansong Zhang, Xinhao Yang, Haoyu Zhang, Zhenhua Zhu, Huazhong Yang, and Yu Wang. Serving Multi-DNN workloads on FPGAs: a coordinated architecture, scheduling, and mapping perspective. *IEEE Transactions on Computers*, 72(5):1314–1328, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhao:2020:MLC

[ZFD+20] Y. Zhao, Z. Fan, Z. Du, T. Zhi, L. Li, Q. Guo, S. Liu, Z. Xu, T. Chen, and Y. Chen. Machine learning computers with fractal von Neumann architecture. *IEEE Transactions on Computers*, 69(7): 998–1014, July 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhou:2023:MMB

[ZFH23] Hai Zhou, Dan Feng, and Yuchong Hu. MDTUpdate: a multi-block double tree update technique in heterogeneous erasure-coded clusters. *IEEE Transactions on Computers*, 72(10):2808–2821, October 2023. CODEN ITCOB4.

ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2022:TNE

[ZFL+22] Lu Zhang, Weiqi Feng, Chao Li, Xiaofeng Hou, Pengyu Wang, Jing Wang, and Minyi Guo. Tapping into NFV environment for opportunistic serverless edge function deployment. *IEEE Transactions on Computers*, 71(10):2698–2704, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2023:TPM

[ZFQ+23] Long Zhang, Gang Feng, Shuang Qin, Xiaoqian Li, Yao Sun, and Bin Cao. Trust-preserving mechanism for blockchain assisted mobile crowdsensing. *IEEE Transactions on Computers*, 72(11): 3113–3126, November 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2021:EHE

[ZFZ+21] X. Zhang, X. Fu, D. Zhuang, C. Xie, and S. L. Song. Enabling highly efficient capsule networks processing through software-hardware co-design. *IEEE Transactions on Computers*, 70(4):495–510, April 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhong:2023:CTP

[ZG23] Yadi Zhong and Ujjwal Guin. A comprehensive test pattern generation approach exploiting the SAT attack for logic locking. *IEEE Transactions on Computers*, 72(8): 2293–2305, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zeng:2021:DSV

[ZGB+21] X. Zeng, S. Garg, M. Barika, S. Bista, D. Puthal, A. Y. Zomaya, and R. Ranjan. Detection of SLA violation for big data analytics applications in cloud. *IEEE Transactions on Computers*, 70(5):746–758, May 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2023:PRB

[ZGD23] Baoquan Zhang, Haoyu Gong, and David H. C. Du. PMDB: a range-based key-value store on hybrid NVM-storage systems. *IEEE Transactions on Computers*, 72(5):1274–1285, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2023:TDI

[ZGG+23] Jie Zhang, Song Guo, Jingcai Guo, Deze Zeng, Jingren Zhou, and Albert Y. Zomaya. Towards data-independent knowledge transfer in model-heterogeneous

federated learning. *IEEE Transactions on Computers*, 72(10):2888–2901, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zyarah:2020:NSS

[ZGK20] A. M. Zyarah, K. Gomez, and D. Kudithipudi. Neuromorphic system for spatial and temporal information processing. *IEEE Transactions on Computers*, 69(8): 1099–1112, August 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhou:2021:FAS

[ZGL+21] Q. Zhou, S. Guo, H. Lu, L. Li, M. Guo, Y. Sun, and K. Wang. Falcon: Addressing stragglers in heterogeneous parameter server via multiple parallelism. *IEEE Transactions on Computers*, 70(1): 139–155, January 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhan:2020:DRL

[ZGLZ20] Y. Zhan, S. Guo, P. Li, and J. Zhang. A deep reinforcement learning based offloading game in edge computing. *IEEE Transactions on Computers*, 69(6):883–893, June 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2022:AFL

[ZGQ+22] Jie Zhang, Song Guo, Zhihao Qu, Deze Zeng, Yufeng Zhan, Qifeng Liu, and Rajendra Akerkar. Adaptive federated learning on non-IID data with resource constraint. *IEEE Transactions on Computers*, 71(7):1655–1667, July 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2022:NCA

[ZGWY22] Bowen Zhang, Huaxi Gu, Kun Wang, and Yintang Yang. A novel CONV acceleration strategy based on logical PE set segmentation for row stationary dataflow. *IEEE Transactions on Computers*, 71(6): 1466–1478, June 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2024:EDN

[ZHL+24] Qinglong Zhang, Rui Han, Chi Harold Liu, Guoren Wang, and Lydia Y. Chen. ElasticDNN: On-device neural network remodeling for adapting evolving vision domains at edge. *IEEE Transactions on Computers*, 73(6):1616–1630, June 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2022:TMT

[ZHLR22] Jipeng Zhang, Junhao Huang, Zhe Liu, and Sujoy Sinha

Roy. Time-memory trade-offs for Saber+ on memory-constrained RISC-V platform. *IEEE Transactions on Computers*, 71(11):2996–3007, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhou:2020:HBA

[ZHM20] L. Zhou, Y. Hu, and Y. Makris. A hardware-based architecture-neutral framework for real-time IoT workload forensics. *IEEE Transactions on Computers*, 69(11):1668–1680, November 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zou:2021:ADR

[ZHYJ21] J. Zou, T. Hao, C. Yu, and H. Jin. A3C-DO: a regional resource scheduling framework based on deep reinforcement learning in edge scenario. *IEEE Transactions on Computers*, 70(2): 228–239, February 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2024:ADC

[ZJW+24] Yucheng Zhang, Hong Jiang, Chunzhi Wang, Wei Huang, Meng Chen, Yongxuan Zhang, and Le Zhang. Applying delta compression to packed datasets for efficient data reduction. *IEEE Transactions on Computers*, 73(1): 73–85, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2022:EEL

[ZLC+22] Runyu Zhang, Duo Liu, Xianzhang Chen, Xiongxiong She, Chaoshu Yang, Yujuan Tan, Zhaoyan Shen, Zili Shao, and Lei Qiao. ELOFS: an extensible low-overhead flash file system for resource-scarce embedded devices. *IEEE Transactions on Computers*, 71(9): 2327–2340, September 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhu:2023:NCT

[ZLC+23a] Liehuang Zhu, Qi Liu, Zhuo Chen, Can Zhang, Feng Gao, and Zhongliang Yang. A novel covert timing channel based on bitcoin messages. *IEEE Transactions on Computers*, 72(10):2913–2924, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhuang:2023:EHP

[ZLC+23b] Hongbin Zhuang, Xiao-Yan Li, Jou-Ming Chang, Cheng-Kuan Lin, and Ximeng Liu. Embedding Hamiltonian paths in k-ary n-cubes with exponentially-many faulty edges. *IEEE Transactions on Computers*, 72(11):3245–3258, November

2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhao:2021:ESD

[ZLH+21] Lutan Zhao, Peinan Li, Rui Hou, Michael C. Huang, Peng Liu, Lixin Zhang, and Dan Meng. Exploiting security dependence for conditional speculation against Spectre attacks. *IEEE Transactions on Computers*, 70(7):963–978, July 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zheng:2022:RRA

[ZLL+22a] Jianwei Zheng, Yu Liu, Xuejiao Liu, Luhong Liang, Deming Chen, and Kwang-Ting Cheng. ReAAP: a reconfigurable and algorithm-oriented array processor with compiler-architecture co-design. *IEEE Transactions on Computers*, 71(12):3088–3100, December 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhou:2022:FDF

[ZLL+22b] Chunyang Zhou, Guohui Li, Jianjun Li, Quan Zhou, and Bing Guo. FAS-DQN: Freshness-aware scheduling via reinforcement learning for latency-sensitive applications. *IEEE Transactions on Computers*, 71(10):2381–2394, October 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2023:AGT

[ZLL+23] Lizhi Zhang, Kai Lu, Zhiquan Lai, Yongquan Fu, Yu Tang, and Dongsheng Li. Accelerating GNN training by adapting large graphs to distributed heterogeneous architectures. *IEEE Transactions on Computers*, 72(12):3473–3488, December 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2024:GGP

[ZLL+24] Xiaoyu Zhang, Zerun Li, Rui Liu, Xiaoming Chen, and Yinhe Han. GAS: General-purpose in-memory-computing accelerator for sparse matrix multiplication. *IEEE Transactions on Computers*, 73(6):1427–1441, June 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2024:LCL

[ZLS+24] Chong Zhang, Songfan Li, Yihang Song, Qianhe Meng, Li Lu, Hongzi Zhu, and Xin Wang. A lightweight and chip-level reconfigurable architecture for next-generation IoT end devices. *IEEE Transactions on Computers*, 73(3): 747–763, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2024:RTR

[ZLW+24] Kai Zhang, Xuejia Lai, Lei Wang, Jie Guan, Bin Hu, Senpeng Wang, and Tairong Shi. Real-time related-key attack on full-round shadow designed for IoT nodes. *IEEE Transactions on Computers*, 73(2): 613–620, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhan:2022:PLE

[ZLWG22] Yufeng Zhan, Peng Li, Leijie Wu, and Song Guo. L4L: Experience-driven computational resource control in federated learning. *IEEE Transactions on Computers*, 71(4): 971–983, April 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2023:RHP

[ZLWJ23] Zhendong Zhang, Peng Liu, Weidong Wang, and Yingtao Jiang. RUPA: a high performance, energy efficient accelerator for rule-based password generation in heterogeneous password recovery system. *IEEE Transactions on Computers*, 72(4):900–913, April 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhu:2023:HAO

[ZLZ+23] Jingsen Zhu, Mengming Li, Xingjian Zhang, Kai Bu, Miao Zhang, and Tianqi Song. Hitchhiker: Accelerating ORAM with dynamic scheduling. *IEEE Transactions on Computers*, 72(8): 2321–2335, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2024:TFA

[ZLZ24] Jie-Fang Zhang, Cheng-Hsun Lu, and Zhengya Zhang. TetriX: Flexible architecture and optimal mapping for tensorized neural network processing. *IEEE Transactions on Computers*, 73(5):1219–1232, May 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2024:ASC

[ZML+24] Tianze Zhang, Xuhong Miao, Yibin Li, Lei Jia, and Yinghao Zhuang. AUV surfacing control with adversarial attack against DLaaS framework. *IEEE Transactions on Computers*, 73(2): 327–339, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhao:2023:ECC

[ZMS+23] Zhipeng Zhao, Joseph Melber, Siddharth Sahay, Shashank Obla, Eriko Nurvitadhi, and James C. Hoe. Exploiting the common case when accelerating input-dependent stream processing by FPGA. *IEEE*

Transactions on Computers, 72(5):1343–1355, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2024:HEC

[ZNW+24] Jiangjiang Zhang, Zhenhu Ning, Muhammad Waqas, Hisham Alasmary, Shanshan Tu, and Sheng Chen. Hybrid edge-cloud collaborator resource scheduling approach based on deep reinforcement learning and multiobjective optimization. *IEEE Transactions on Computers*, 73(1): 192–205, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zeng:2024:PSD

[ZQG+24] Yue Zeng, Zhihao Qu, Song Guo, Baoliu Ye, Jie Zhang, Jing Li, and Bin Tang. `SafeDRL`: Dynamic microservice provisioning with reliability and latency guarantees in edge environments. *IEEE Transactions on Computers*, 73(1):235–248, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2020:NAE

[ZQY+20] N. Zhang, Q. Qin, H. Yuan, C. Zhou, S. Yin, S. Wei, and L. Liu. NTTU: An area-efficient low-power NTT-uncoupled architecture for NTT-based multiplication. *IEEE Transactions on Computers*, 69(4):520–533, April 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2023:EIA

[ZSC+23] Qingyang Zhang, Dongfang Sui, Jie Cui, Chengjie Gu, and Hong Zhong. Efficient integrity auditing mechanism with secure deduplication for blockchain storage. *IEEE Transactions on Computers*, 72(8):2365–2376, August 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zaruba:2021:STP

[ZSHB21] Florian Zaruba, Fabian Schuiki, Torsten Hoefler, and Luca Benini. Snitch: A tiny pseudo dual-issue processor for area and energy efficient execution of floating-point intensive workloads. *IEEE Transactions on Computers*, 70(11):1845–1860, November 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhao:2020:FFC

[ZSS20] R. K. Zhao, R. Steinfeld, and A. Sakzad. FACCT: FAst, Compact, and Constant-Time discrete Gaussian sampler over integers. *IEEE Transactions on Computers*, 69(1): 126–137, January 2020. CODEN ITCOB4. ISSN 0018-

9340 (print), 1557-9956 (electronic).

Zhang:2022:VSB

[ZSS+22] Jiliang Zhang, Chaoqun Shen, Haihan Su, Md Tanvir Arafin, and Gang Qu. Voltage overscaling-based lightweight authentication for IoT security. *IEEE Transactions on Computers*, 71(2):323–336, February 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zou:2024:VIC

[ZSX+24] Yifei Zou, Shikun Shen, Mengbai Xiao, Peng Li, Dongxiao Yu, and Xiuzhen Cheng. Value of information: a comprehensive metric for client selection in federated edge learning. *IEEE Transactions on Computers*, 73(4):1152–1164, April 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhu:2023:LLH

[ZTLW23] Danyang Zhu, Jing Tian, Minghao Li, and Zhongfeng Wang. Low-latency hardware architecture for VDF evaluation in class groups. *IEEE Transactions on Computers*, 72(6):1706–1717, June 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zaman:2022:PPL

[ZTT22] Mashiyat Zaman, Kotaro Tanahashi, and Shu Tanaka. PyQUBO: Python library for mapping combinatorial optimization problems to QUBO form. *IEEE Transactions on Computers*, 71(4):838–850, April 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhan:2023:ARB

[ZTY+23] Dongyang Zhan, Kai Tan, Lin Ye, Xiangzhan Yu, Hongli Zhang, and Zheng He. An adversarial robust behavior sequence anomaly detection approach based on critical behavior unit learning. *IEEE Transactions on Computers*, 72(11):3286–3299, November 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zheng:2022:DMB

[ZWB+22] Zhigao Zheng, Tao Wang, Ali Kashif Bashir, Mamoun Alazab, Shahid Mumtaz, and Xiaoyan Wang. A decentralized mechanism based on differential privacy for privacy-preserving computation in smart grid. *IEEE Transactions on Computers*, 71(11): 2915–2926, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zou:2022:CCA

[ZWC+22] Kaiwei Zou, Ying Wang, Long Cheng, Songyun Qu, Huawei Li, and Xiaowei Li. CAP: Communication-aware auto-

mated parallelization for deep learning inference on CMP architectures. *IEEE Transactions on Computers*, 71(7): 1626–1639, July 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhao:2023:FTM

[ZWC+23] Ziming Zhao, Mingyu Wu, Xujie Cao, Haibo Chen, and Binyu Zang. Flock: Towards multitasking virtual machines for function-as-a-service. *IEEE Transactions on Computers*, 72(11):3153–3166, November 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhou:2020:FEN

[ZWM20] X. Zhou, L. Wang, and A. Mishchenko. Fast exact NPN classification by co-designing canonical form and its computation algorithm. *IEEE Transactions on Computers*, 69(9):1293–1307, September 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhou:2024:EDR

[ZWSF24] Yang Zhou, Fang Wang, Zhan Shi, and Dan Feng. An efficient deep reinforcement learning-based automatic cache replacement policy in cloud block storage systems. *IEEE Transactions on Computers*, 73(1): 164–177, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhou:2022:LTI

[ZWWY22] Pengzhan Zhou, Xin Wei, Cong Wang, and Yuanyuan Yang. k-level truthful incentivizing mechanism and generalized k-MAB problem. *IEEE Transactions on Computers*, 71(7):1724–1739, July 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhou:2023:OFC

[ZWY+23] Fang Zhou, Song Wu, Jianhui Yue, Hai Jin, and Jiangqiu Shen. Object fingerprint cache for heterogeneous memory system. *IEEE Transactions on Computers*, 72(9): 2496–2507, September 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhao:2024:BPD

[ZXD+24] Mengying Zhao, Shuo Xu, Lihao Dong, Chun Jason Xue, Dongxiao Yu, Xiaojun Cai, and Zhiping Jia. Branch predictor design for energy harvesting powered nonvolatile processors. *IEEE Transactions on Computers*, 73(3): 722–734, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zheng:2023:BFA

[ZXL+23] Shihui Zheng, Ruihao Xing, Junlong Lai, Junkai Liu, Haofeng Wang, and Changhai Ou. Breaking fault attack countermeasures with side-channel information. *IEEE Transactions on Computers*, 72(5):1396–1408, May 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2024:OCE

[ZXW+24] Chen Zhang, Qingyuan Xie, Mingyue Wang, Yu Guo, and Xiaohua Jia. Optimal compression for encrypted key–value store in cloud systems. *IEEE Transactions on Computers*, 73(3):928–941, March 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2024:DTA

[ZXY+24] Ruirui Zhang, Zhenzhen Xie, Dongxiao Yu, Weifa Liang, and Xiuzhen Cheng. Digital twin-assisted federated learning service provisioning over mobile edge networks. *IEEE Transactions on Computers*, 73(2):586–598, February 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zong:2021:PPT

[ZXZ+21] Pengchen Zong, Tian Xia, Haoran Zhao, Jianming Tong, Zehua Li, Wenzhe Zhao, Nanning Zheng, and Pengju Ren. PIT: Processing-in-transmission with fine-grained data manipulation networks. *IEEE Transactions on Computers*, 70(6):877–891, June 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2020:SCA

[ZYD+20] F. Zhang, B. Yang, X. Dong, S. Guilley, Z. Liu, W. He, F. Zhang, and K. Ren. Side-channel analysis and countermeasure design on ARM-Based quantum-resistant SIKE. *IEEE Transactions on Computers*, 69(11):1681–1693, November 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2022:PPB

[ZYL+22] Yiming Zhang, Lujia Yin, Dongsheng Li, Yuxing Peng, and Kai Lu. `ParaX`: Bandwidth-efficient instance assignment for DL on Multi-NUMA many-core CPUs. *IEEE Transactions on Computers*, 71(11):3032–3046, November 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2020:IWC

[ZYXD20] B. Zhang, M. Yang, X. Xie, and D. H. C. Du. Idler: I/O workload controlling for better responsiveness on host-aware shingled magnetic recording drives. *IEEE Transactions*

on Computers, 69(6):777–788, June 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhao:2023:JJP

[ZYZ+23] Yangming Zhao, Cheng Yang, Gongming Zhao, Yunfei Hou, Ting Wang, and Chunming Qiao. JointPS: Joint parameter server placement and flow scheduling for machine learning clusters. *IEEE Transactions on Computers*, 72(12): 3503–3518, December 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zou:2023:CBC

[ZZC+23] Qiang Zou, Yifeng Zhu, Jianxi Chen, Yuhui Deng, and Xiao Qin. Characterization of I/O behaviors in cloud storage workloads. *IEEE Transactions on Computers*, 72(10): 2726–2739, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2020:SFG

[ZZG20] C. Zhang, Y. Zeng, and X. Guo. Scrabble: A fine-grained cache with adaptive merged block. *IEEE Transactions on Computers*, 69(1): 112–125, January 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zeng:2023:EES

[ZZG+23] Deze Zeng, Andong Zhu, Lin Gu, Peng Li, Quan Chen, and Minyi Guo. Enabling efficient spatio-temporal GPU sharing for network function virtualization. *IEEE Transactions on Computers*, 72(10):2963–2977, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2021:EPE

[ZZL21] Wei Zhang, Hang Zhang, and John Lach. Extending performance-energy tradeoffs via dynamic core scaling. *IEEE Transactions on Computers*, 70(11):1875–1886, November 2021. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zheng:2022:MRV

[ZZM+22] Jiaqi Zheng, Zixuan Zhang, Qiufang Ma, Xiaofeng Gao, Chen Tian, and Guihai Chen. Multi-resource VNF deployment in a heterogeneous cloud. *IEEE Transactions on Computers*, 71(1):81–91, January 2022. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zeng:2020:AIS

[ZZZ+20] X. Zeng, T. Zhi, X. Zhou, Z. Du, Q. Guo, S. Liu, B. Wang, Y. Wen, C. Wang, X. Zhou, L. Li, T. Chen,

N. Sun, and Y. Chen. Addressing irregularity in sparse neural networks through a cooperative Software/Hardware approach. *IEEE Transactions on Computers*, 69(7):968–985, July 2020. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Zhang:2023:MPA

[ZZZ+23] Xianglong Zhang, Huanle Zhang, Guoming Zhang, Hong Li, Dongxiao Yu, Xiuzhen Cheng, and Pengfei Hu. Model poisoning attack on neural network without reference data. *IEEE Transactions on Computers*, 72(10):2978–2989, October 2023. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).