# A Complete Bibliography of Publications in the journal *Mathematics in Computer Science*

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: http://www.math.utah.edu/~beebe/

12 June 2023
Version 1.27

## Title word cross-reference

$(a, b, c)$ [230]. 1 [288]. 10 [449]. 2 [88, 198, 508]. 3 [320, 372, 106, 155]. $3n$ [384]. $3 \times 3 \times 3$ [251]. $D$ [133, 583]. $H^1$ [515]. $K$ [233, 110, 111, 547, 78, 80, 217]. $K[X][Y; f\frac{d}{dX}]$ [480]. $K_{m,n}[P_k]$ [390]. $L(2, 1)$ [146, 283]. $m$ [341, 180]. $\mathcal{S}_6$ [419]. $n$ [181, 504]. $\Omega$ [52]. $\pi$ [62]. $q$ [579]. $\mathrm{SL}_3(\mathbf{C}) \times \mathrm{SL}_3(\mathbf{C}) \times \mathrm{SL}_3(\mathbf{C})$ [251]. $T$ [329]. $\tau$ [86, 336]. $\varepsilon$ [216]. $W$ [374].

**-Adic** [86]. **-Algebras** [233]. **-Analogs** [579]. **-approach** [216]. **-arboricity** [547]. **-Body** [384]. **-Calculus** [62]. **-Coloring** [329]. **-Fault** [288]. **-Fixed-Endpoint** [80]. **-Fold** [180]. **-Labeling** [146, 283]. **-Means** [217]. **-Method** [336]. **-Module** [133]. **-Modules** [583]. **-Orthogonal** [508]. **-Phase** [78]. **-Polar** [341]. **-SAT** [110, 106]. **-sectors** [504]. **-Trees** [111, 155]. **-Year** [449].

**2D** [425].

**3** [191].

**4.0** [549].

**Aachen** [570]. **Abelian** [488, 547]. **Absent** [537]. **Absent-Minded** [537]. **Abstraction** [578]. **ACC** [197]. **ACC/DEC** [197]. **Accelerating** [240]. **Accelerations** [198]. **Access** [586]. **Accuracy** [333]. **Accurate** [434, 173, 487]. **Achievements** [435]. **Activity** [543]. **Adams** [465]. **Adic** [86]. **Adjoint** [257]. **Advanced** [442, 270, 362].

**Advances** [335, 392, 506]. **AES** [89]. **Affine** [401, 462, 257]. **After** [347]. **AGE** [281]. **Agents** [553]. **Agreeing** [231]. **Ahead** [197]. **Aircraft** [446]. **Algebra** [576, 572, 15, 560, 432, 486, 564, 434, 65, 479, 476, 241, 449, 578, 383, 537, 542, 583]. **Algebraic** [70, 139, 519, 118, 548, 257, 483, 481, 350, 160, 454, 368, 117, 164, 140, 28, 190, 452, 13, 223, 63, 256]. **Algebraically** [302]. **Algebras** [233, 367, 482, 339, 395, 509, 379, 308, 232]. **Algebro** [551]. **Algebro-Geometric** [551]. **Algorithm** [236, 455, 401, 123, 529, 575, 219, 257, 373, 106, 531, 469, 69, 357, 388, 105, 80, 441, 263, 231, 527, 281]. **Algorithmic** [307, 534, 32]. **Algorithms** [37, 146, 302, 350, 107, 71, 193, 524, 103, 63, 59]. **Alignment** [219]. **Alignment-Based** [219]. **Alignments** [539, 400, 362]. **Allowing** [30]. **Almost** [287, 550]. **almost-circles** [550]. **Alternative** [19]. **Ambient** [305]. **Amounts** [312]. **Analogs** [579]. **Analysing** [476]. **Analysis** [110, 393, 425, 279, 477, 212, 36, 303, 167, 200, 246, 268, 77, 492, 164, 338, 440, 28, 541, 556, 380, 210, 271, 551, 217]. **Analytic** [12, 126, 7]. **Analytical** [108, 502]. **Analyze** [485]. **AND/OR** [59]. **Andreas** [517]. **Angles** [504]. **Animated** [375]. **Animations** [435]. **Anisotropically** [377]. **Annotated** [172]. **Anonymization** [405]. **Antimagic** [226, 286, 390, 151, 225]. **Antimagicness** [282]. **Antiprisms** [226]. **AntiSARS** [553]. **AntiSARS-CoV2** [553]. **Ants** [365]. **Any** [471]. **Applicability** [424]. **Application** [341, 465, 212, 535, 25, 303, 214, 447, 181, 263, 270, 383]. **Applications** [285, 536, 116, 144, 575, 371, 8, 74, 36, 325, 32]. **Applied** [340, 511]. **Approach** [127, 12, 227, 167, 31, 168, 21, 447, 307, 128, 396, 65, 252, 196, 382, 452, 138, 526, 542, 218, 137, 216]. **Approaches** [28]. **Approximate** [158, 227, 21, 456, 6, 137]. **Approximating** [349]. **Approximation** [5, 22]. **Approximations** [74]. **Arbitrarily** [148]. **Arbitrary** [125, 504]. **arboricity** [547]. **Archimedean** [202]. **Area** [155]. **Arithmetic** [171, 190, 476, 260]. **Arrangements** [115, 116]. **Array** [357]. **Arrays** [415, 358, 546, 545]. **Art** [144, 385]. **Artifact** [564]. **Artificial** [553]. **Aspects** [586]. **Assignment** [37]. **Assisted** [542]. **Associated** [410, 383, 527, 583]. **Associativity** [342]. **Astronomy** [424]. **Asymptotically** [372]. **ÁTAME** [495]. **ATP** [277, 51]. **ATP-based** [51]. **Attacks** [407]. **Attractive** [447]. **Attractor** [59]. **Atwood** [380]. **Authoring** [92]. **Automata** [34, 176, 204, 364]. **Automated** [61, 244, 500, 429, 580, 503, 440, 501, 505]. **Automatic** [471, 50, 435, 317]. **Automatically** [203]. **Automaticity** [348]. **Automating** [344]. **Automorphism** [489, 419]. **Autonomous** [519, 481]. **Average** [77, 359]. **Averaged** [479]. **Avoid** [255]. **Avoiding** [407]. **Aware** [207]. **Axis** [196].

**B** [222]. **B-Spline** [222]. **Backward** [353]. **Bad** [93]. **Ball** [195]. **Ball-end** [195]. **Banach** [6]. **Banana** [148]. **Band** [514]. **Bar** [575, 485]. **Bargraphs** [544]. **Base** [413, 221]. **Based** [285, 219, 485, 97, 302, 469, 313, 266, 408, 524, 140, 378, 85, 196, 271, 526, 557, 362, 197, 217, 327, 137, 213, 214, 281, 51, 369]. **Bases** [238, 19, 460, 87, 158, 566, 467, 521, 531, 532, 522, 68, 422, 346, 10]. **Bashforth** [465]. **Basic** [437]. **Basics** [405]. **Basis** [469, 69, 375, 186, 441]. **Battle** [588]. **Baxter** [131, 132]. **Bayesian** [67]. **be** [310, 232]. **BE-algebras** [232]. **Behavior** [70, 221, 60]. **Behaviour** [86]. **Berge** [295]. **Bernstein** [263]. **Beta** [558]. **Between** [391, 183, 346, 507]. **Beyond** [549]. **Bezout** [22]. **Bi** [451]. **Bi-univalent** [451]. **BIBD** [414]. **Bibliographic** [585]. **Bifurcation** [63]. **Bifurcations** [13]. **Big** [405]. **Bill** [39]. **Binary** [425, 489, 220, 360, 327]. **Binomial**

[121, 448]. **Biochemical** [61]. **Biological** [534, 164, 165, 28]. **Biology** [63]. **Bioregulatory** [60]. **Bipartite** [283, 327]. **Birkhoff** [422]. **Bisection** [397]. **Bispanning** [73]. **Bit** [105]. **Bit-Parallel** [105]. **Bitstream** [138]. **Bivariate** [161, 437]. **Bivium** [87]. **Black** [563]. **BLIM** [105]. **Block** [361]. **Blocking** [108]. **Blocks** [413]. **BLS** [558]. **Bodies** [530, 560]. **Body** [377, 474, 384]. **Boltzmann** [587]. **Book** [381]. **Boolean** [411, 27, 60, 59]. **Border** [467, 469]. **Bound** [262]. **Boundary** [450, 223]. **Bounded** [450, 198]. **Bounding** [455]. **Bounds** [521, 252, 267, 451]. **Bow** [292]. **Box** [269]. **Boxes** [563, 275, 262]. **Branch** [374, 262]. **Branch-and-Bound** [262]. **Breaking** [457]. **Breaks** [514]. **Brief** [382, 404]. **Bring** [578]. **Brylawski** [185]. **Buchberger** [373, 346]. **Burgers'** [281, 121]. **Burrows** [359]. **Butson** [421].

**C** [172, 563, 169]. **Cache** [107]. **CAD** [117]. **Calculation** [497, 14, 376, 475, 448]. **Calculator** [476, 578]. **Calculus** [207, 62, 175, 127, 440, 442, 223, 222]. **CAM** [193, 196]. **Can** [578, 310]. **Canal** [258]. **Canonical** [323, 12]. **Capable** [273]. **Caputo** [512]. **Carleman** [340]. **Carlitz** [554]. **Cartesian** [151, 227, 41]. **CAS** [462, 371, 430, 485, 378]. **CAS/DGS** [485]. **Case** [379, 248, 77, 441, 442, 359]. **Catalan** [544]. **Category** [367, 482]. **Cauchy** [127]. **Caylay** [547]. **Cell** [438, 273]. **Cells** [555]. **Centers** [318]. **Central** [372, 384]. **Centroid** [285]. **Certain** [562, 295, 293, 300, 451, 329]. **Certified** [318]. **Certify** [15]. **Chains** [123, 518, 331]. **Challenge** [537]. **Challenges** [434, 435, 405]. **Challenging** [319]. **Change** [377, 344, 587]. **Channel** [407, 444]. **Chaotic** [86]. **Characteristic** [409, 88, 91, 346]. **Characterization** [264, 418]. **Chebyshev** [333, 507]. **Checking** [317, 304]. **Chemical** [166, 228]. **Choice** [244]. **circles** [550]. **Circulants** [300]. **Circular** [530, 382]. **Class** [261, 384]. **Classes** [334, 511, 461, 316, 240]. **Classical** [391, 250]. **Classification** [480]. **Classifying** [350]. **Classroom** [576]. **Classrooms** [375]. **Clause** [304]. **Claw** [145]. **Claw-Free** [145]. **Clipping** [161]. **Clique** [154]. **Clocks** [46]. **Closed** [302, 150, 331]. **Closed/Open** [150]. **Cluster** [36]. **Clustering** [523, 217]. **Clusters** [237, 229, 21]. **CNC** [193]. **Coarseness** [143]. **Coboundary** [183]. **Cocyclic** [416]. **Code** [575, 352]. **Codes** [417, 488, 410, 489, 198, 156, 189, 186, 85, 461, 327]. **Coding** [157]. **Coefficients** [121, 451, 398, 10, 448]. **Cohen** [379]. **Collaborative** [247]. **Collection** [96]. **Collections** [98]. **Colliers** [458]. **Coloring** [78, 329, 459]. **Column** [554]. **Column-Convex** [554]. **Combinations** [301]. **Combinatorial** [418, 546, 545]. **Combining** [200]. **Common** [30, 365, 364, 538, 507]. **Communication** [104]. **Communications** [586]. **Community** [24]. **Companion** [428]. **Comparison** [491, 188, 32]. **Complete** [575, 169]. **Completely** [11]. **Completeness** [216]. **Complex** [450, 420, 419, 523, 17, 513]. **Complexity** [104, 228, 66]. **Component** [207]. **Components** [559]. **Composite** [516, 422]. **Composition** [207]. **Compositional** [539]. **Compositions** [555, 463]. **Comprehension** [496]. **Comprehensive** [302, 439, 583]. **Compressed** [358]. **Compression** [104, 220, 219]. **Computation** [427, 124, 334, 340, 511, 379, 531, 335, 392, 506, 280, 394, 386, 67, 4]. **Computational** [36, 135, 66, 338, 516, 446]. **Computationally** [485]. **Computations** [566, 530, 375, 140, 40]. **Compute** [494, 257]. **Computer** [576, 572, 15, 560, 432, 486, 564, 434, 347, 105, 479, 241, 449, 578, 383, 537, 276]. **Computing** [407, 552, 192, 129, 323, 229,

114, 158, 467, 562, 69, 330, 312, 186, 474, 91, 439, 181, 441, 103, 174, 527, 583, 3, 10]. **Concept** [38]. **Concepts** [385]. **Concretizations** [116]. **Conditional** [152, 178, 81]. **Conditions** [145, 8, 516]. **Cone** [382]. **Cones** [109]. **Conference** [421]. **Configuration** [485]. **Configurations** [588, 383, 384]. **Conformal** [320, 135]. **Conforming** [515]. **Confront** [442]. **Conic** [5, 382]. **Conjecture** [295]. **Conjecturing** [576]. **Conjugation** [340]. **Connected** [530, 560, 299, 82]. **Connection** [346]. **Connectivity** [328, 309]. **Constants** [568, 4]. **Constrained** [459]. **Constraint** [272]. **Constraints** [301, 261]. **Constructibility** [317, 316]. **Constructible** [323]. **Construction** [285, 579, 320, 491, 419, 357, 77, 479, 151, 461, 317, 359]. **Constructions** [488, 327]. **Constructive** [133]. **Context** [100, 97]. **Context-Free** [97]. **Continuation** [255, 7]. **Contractions** [339]. **Contribution** [518, 404]. **Control** [234, 393, 584, 447, 313, 224, 337, 273, 197]. **Controlled** [444]. **Convergence** [15, 161]. **Convergent** [139, 439]. **Conversion** [351, 472]. **Convex** [192, 450, 303, 554, 305]. **Coq** [279, 491, 248]. **Coquelicot** [279]. **Corona** [282]. **Coronene** [290]. **Corpus** [317]. **Correcting** [156]. **Correction** [546]. **Cost** [77]. **Counterpart** [581]. **Counting** [310, 588, 544]. **Coupled** [467]. **CoV2** [553]. **Cover** [426, 75, 80, 154]. **Coverage** [178]. **Covering** [401, 212, 227, 546, 545, 178, 81]. **Coxeter** [468]. **Cracked** [338]. **Creative** [128, 533]. **Cross** [51]. **Cryptanalysis** [90, 85]. **Cryptographical** [188]. **Cryptography** [408]. **Cryptosystem** [90]. **Cryptosystems** [85]. **CSP** [266]. **CTL** [393]. **Cube** [82]. **Cube-Connected** [82]. **Cuckoo** [77]. **Curvature** [197]. **Curvature-Based** [197]. **Curve** [113, 88, 257]. **Curved** [192]. **Curves** [407, 70, 118, 462, 548, 486, 368, 558, 91, 408, 306, 324, 137, 222]. **Cutter** [195]. **Cycle** [188, 293, 187, 299]. **Cycles** [82]. **Cyclic** [488, 85]. **Cylindrical** [160, 454, 256].

**D** [320, 372, 198]. **DAEs** [445]. **Dags** [140]. **Data** [20, 536, 424, 235, 36, 47, 405]. **Database** [493]. **Databases** [404]. **Dataflow** [44, 41]. **Date** [471]. **DC** [452]. **Dealing** [398]. **DEC** [197]. **Decides** [205]. **Decision** [204]. **Declarative** [44]. **Decomposition** [349, 160, 454, 396, 186, 508]. **Decompositions** [438, 538, 256]. **Dedication** [517, 528]. **Deduction** [500, 501, 505]. **Defined** [409, 137]. **Definition** [376, 475]. **Degenerate** [363, 31]. **Degree** [145, 411, 287, 521, 547, 558, 187]. **Degrees** [43]. **Delay** [465]. **Delayed** [393]. **Delegation** [498]. **Dendrimer** [328]. **Density** [38]. **Dependence** [260]. **Dependent** [515, 272]. **Deprit** [479]. **Depth** [463]. **DERIVE** [449]. **Deriving** [60]. **Description** [213, 55]. **Description-based** [213]. **Descriptive** [391]. **Design** [385, 168, 564, 388, 140, 446]. **Designing** [553]. **Designs** [414, 579]. **Detect** [370]. **Detecting** [324]. **Detection** [503, 59]. **Determination** [265, 267]. **Devices** [434]. **DG** [196]. **DG/K** [196]. **DG/K-Based** [196]. **DGS** [462, 485]. **Diagrammatic** [471]. **Diagrams** [552, 464]. **Diamond** [294]. **Dichotomy** [27]. **Difference** [415, 413, 483, 437, 484, 565]. **Differences** [548]. **Different** [188, 377, 474, 476, 461]. **Differential** [465, 123, 477, 124, 481, 379, 535, 333, 132, 522, 201, 122, 268, 120, 437, 484, 399, 510, 126, 526, 11, 125, 527, 336, 10]. **Differentiation** [181]. **Diffusion** [535, 353]. **Digital** [425, 93, 442]. **Digitalization** [92]. **Digitization** [94, 95]. **Digraphs** [287]. **Dimension** [488, 519, 483, 120, 437, 484, 565, 179, 294, 252, 125]. **Dimensional** [368, 338]. **Dimensionality** [525]. **Directed** [296]. **Directions** [144]. **Directly** [376, 475].

**Disambiguation** [56]. **Discovering** [203]. **Discovery** [36, 215]. **Discrete** [202, 493, 371, 164, 198, 121, 344, 587, 222]. **DiscreteZOO** [493]. **Discretization** [281]. **Discriminant** [253]. **Disease** [64]. **Diskew** [367]. **Distance** [433]. **Distances** [285]. **Distributed** [269, 31]. **Distributions** [237]. **Divisions** [575]. **Divisive** [426]. **Divisors** [69]. **DNA** [236, 355, 31]. **DNA/RNA** [31]. **Do** [370, 568]. **Documents** [49, 100]. **Does** [370]. **Domain** [245]. **Domains** [581]. **Dominating** [330]. **Domination** [298, 290]. **Drawings** [155]. **Driven** [247]. **Dual** [486, 389]. **Duality** [185]. **due** [514]. **During** [442]. **Dynamic** [427, 315, 432, 486, 447, 375, 435, 381, 382, 585, 502]. **Dynamical** [167, 27, 203]. **Dynamics** [62, 337, 60].

**Earth** [530]. **Ebola** [337]. **Eccentric** [328]. **Economics** [447]. **Edge** [242, 289, 149, 299]. **Edge-Magic** [149]. **Editions** [95]. **Editorial** [1]. **Education** [549]. **Effect** [476]. **Effective** [7]. **Effectively** [520]. **Effects** [516]. **Efficiency** [330, 108]. **Efficient** [236, 495, 455, 37, 45, 498, 169, 303, 261, 559, 388, 386, 190]. **Efficiently** [520]. **Eighth** [162]. **Einstein** [483]. **Electrification** [452]. **Electro** [434]. **Electro-optic** [434]. **Electrostatic** [383]. **Element** [515, 472]. **Elements** [577, 562, 434]. **Elimination** [166, 21, 126, 304, 26]. **Ellipsoid** [447]. **Elliptic** [407, 408]. **Embedding** [558, 165, 291, 300]. **Empirical** [20]. **Employment** [514]. **Encapsulating** [245]. **Encyclopedia** [318]. **end** [195]. **Endpoint** [80]. **Energy** [108]. **Energy-Time** [108]. **Enforcement** [495]. **Engineering** [357, 247, 505]. **Enhance** [330]. **Entangled** [422]. **Enthusiast** [572]. **Enumerating** [557]. **Enumeration** [131, 132]. **Envelope** [435]. **Envelopes** [548, 580]. **Environment** [427]. **Enzyme** [362]. **Epidemiological** [64]. **Epidemiology** [65]. **Equal** [348, 79]. **Equal-Length** [79]. **Equalising** [584]. **Equation** [515, 114, 121, 281]. **Equations** [465, 129, 139, 477, 89, 124, 483, 481, 535, 25, 180, 399, 526]. **Equi** [422]. **Equi-Entangled** [422]. **Equilibria** [64]. **Equilibrium** [530]. **Equivalence** [238, 174]. **Error** [156]. **Error-Correcting** [156]. **Errors** [35, 56, 442]. **Estimating** [109, 514]. **Estimation** [200, 274]. **Euclid** [428]. **Eulogy** [403]. **European** [551]. **Evader** [268]. **Evaluating** [383]. **Evolution** [137, 96]. **Evolution-Based** [137]. **EX** [83]. **Exact** [25]. **Exam** [578]. **Examples** [376, 475]. **Exchange** [187]. **Exercises** [101]. **Exist** [568]. **Existence** [27, 421]. **Exists** [261]. **Expanded** [54]. **Expanding** [108]. **Expansions** [86, 451]. **Experiments** [546, 545, 51]. **Explain** [543]. **Explicit** [445, 510]. **Exploration** [548, 580, 486]. **Exploring** [334, 462]. **Exponential** [445, 436]. **Exponentiation** [498]. **Expressed** [19]. **Expression** [140]. **Extend** [57]. **Extended** [158, 344]. **Extension** [465, 480, 420, 190, 293]. **Extensions** [120, 437]. **External** [357, 359]. **Extrapolation** [66].

**Faber** [451]. **Face** [226, 225]. **Factor** [125]. **Factorable** [11]. **Factorials** [546, 545]. **Factoring** [563]. **Factorization** [33, 71, 122]. **Factorizations** [363, 11, 125]. **Factors** [538]. **Familiarizing** [376, 475]. **Families** [230, 413, 188, 297, 187, 551]. **Family** [583]. **Fan** [109]. **Fans** [234]. **Fast** [128, 375, 103]. **Faster** [558, 359]. **Fault** [418, 288]. **Feller** [353]. **Fermat** [462]. **FEVS** [174]. **Fiber** [221]. **Field** [302, 560, 120, 437, 308, 383]. **Fields** [409, 120, 190]. **Filtered** [373]. **Filters** [232]. **Finding** [74, 526]. **Fingerprint** [493]. **Finite** [409, 577, 434, 260]. **Finitely** [332, 120]. **Fire** [516]. **First** [481, 205, 322, 51]. **First-Order** [205]. **Five**

[287]. **Fixed** [148, 27, 80, 557]. **Fixed-Point** [27]. **Flatness** [200]. **Flow** [444, 210]. **Focus** [235, 500, 301, 193, 335, 392, 506, 325, 276]. **Fold** [180]. **Folded** [291, 153]. **Following** [139]. **Forall** [261]. **Foreword** [58, 163, 92, 423, 470, 29, 235, 500, 102, 366, 453, 249, 517, 528, 561, 170, 84, 301, 443, 112, 412, 354, 48, 243, 23, 182, 490, 193, 335, 392, 506, 402, 72, 141, 284, 208, 325, 259, 199, 119, 573, 314, 276, 134, 9, 2]. **Form** [123, 478, 562, 195]. **Formal** [172, 245, 246, 307, 276]. **Formalization** [239, 378]. **Formalized** [491]. **Format** [53]. **Forms** [431, 527]. **Formula** [97, 181]. **Formulae** [510]. **Formulas** [184]. **Foundations** [218]. **Four** [287]. **Fourier** [307]. **Fourth** [11]. **Fractal** [425]. **Fractals** [549, 189, 543]. **Fraction** [538]. **Fraction-Free** [538]. **Fractional** [512, 535, 353]. **Fragment** [205]. **Framework** [115, 418, 369]. **Francs** [159]. **Free** [145, 111, 211, 64, 97, 373, 213, 195, 538]. **Free-form** [195]. **Freedom** [57]. **Frequencies** [157]. **Friendly** [279, 558]. **Fuel** [273]. **Fulkerson** [295]. **Full** [417]. **Fullerene** [242]. **Function** [264, 175, 395, 509, 268, 181, 440]. **Functional** [130, 45, 398, 174]. **Functions** [450, 272, 581, 411, 12, 131, 132, 203, 91, 126, 451, 3]. **Fundamental** [251]. **Fundamentals** [135]. **Future** [144, 586]. **Fuzzy** [234, 233, 341].

**G01** [198]. **Gain** [167]. **Galois** [472]. **Games** [268]. **Gaussian** [237, 21]. **GCD** [456]. **General** [512, 115, 498, 38, 201, 396, 138]. **Generality** [370]. **Generalized** [367, 282, 185, 289, 148]. **Generated** [120]. **Generating** [416, 131, 132]. **Generation** [471, 195]. **Generic** [207, 140]. **Genetic** [350]. **Genus** [88]. **Geodesic** [321]. **GeoGebra** [585]. **Geometer** [540]. **Geometric** [576, 239, 303, 368, 184, 241, 317, 551]. **Geometries** [211]. **Geometry** [536, 427, 315, 500, 135, 432, 486, 375, 435, 568, 381, 501, 241, 382, 585, 319, 446, 502, 543]. **Gerdt** [574, 572, 528, 569, 571, 570, 567]. **Get** [56]. **GGH** [90]. **Given** [547]. **Global** [512, 15, 21, 263, 217]. **Globally** [139]. **Gluing** [231]. **Goethals** [413]. **Good** [70, 93, 468]. **Graceful** [144, 148, 292]. **Grammar** [97]. **Grammars** [308]. **Grammatical** [97]. **Granulations** [217]. **Graph** [285, 584, 50, 372, 229, 457, 78, 390, 308, 328, 278, 325, 296, 225, 154, 459]. **Graph-Based** [285]. **Graph-Modelled** [584]. **Graphical** [487]. **Graphs** [341, 286, 73, 326, 143, 145, 282, 38, 75, 361, 71, 227, 76, 147, 289, 292, 547, 433, 188, 80, 311, 283, 151, 293, 298, 300, 288, 210, 297, 178, 187, 299, 83, 327]. **Graver** [186]. **Gravitational** [560]. **Greedy** [575]. **Grid** [296, 557]. **Grid-Based** [557]. **Gröbner** [460, 109, 87, 158, 302, 351, 532, 522, 69, 375, 68, 439, 583, 346, 10]. **Groebnerialium** [574]. **Grothendieck** [441]. **Ground** [205]. **Group** [88]. **Groups** [498, 547]. **Guard** [266]. **GVW** [531].

**Hadamard** [415, 416, 417, 420, 419, 422, 421]. **Half** [552, 445]. **Half-Explicit** [445]. **Half-Lines** [552]. **Hamiltonian** [288]. **Hammer** [277]. **Harmonic** [581]. **Hashing** [77]. **Having** [489]. **Heat** [541]. **Heater** [234]. **Height** [428]. **Helicopter** [445]. **Help** [430, 365]. **Hereditary** [142]. **Hermite** [436, 473]. **Hermitian** [431]. **Heuristic** [416]. **Hexagonal** [152]. **Hierarchical** [99]. **High** [255, 577, 535, 174, 487]. **High-Order** [577, 535]. **High-Performance** [174]. **Highly** [355, 553]. **Historical** [47]. **Hit** [55]. **HIV** [393]. **HOL** [277]. **Holonomic** [583]. **Homogeneous** [253]. **Homological** [252]. **Homology** [464]. **Homotopy** [255]. **Honeycomb** [152]. **Honour** [39]. **Hopf** [63].

**Hori** [479]. **Hough** [536, 324]. **Huffman** [157]. **Hull** [192]. **Hybrid** [62, 176, 303, 266, 247]. **Hydropathy** [362]. **Hyperbolic** [25, 587]. **Hyperbolicity** [466]. **Hypercubes** [291, 153]. **Hyperdeterminant** [251]. **Hypergeometric** [180]. **Hypergraph** [342, 177]. **Hypergraphs** [142]. **Hypersurface** [527, 583]. **Hypersurfaces** [305].

**ICT** [369]. **Ideal** [410, 257, 559, 69, 439, 386]. **Ideals** [532, 562, 179]. **Identifiability** [265]. **Identification** [492]. **Identify** [236]. **Identifying** [49]. **II** [116, 86, 392]. **III** [506]. **IL-System** [26]. **Image** [220, 212, 214, 492]. **Images** [425, 324]. **Immune** [393]. **Impact** [449, 585]. **Implementation** [45, 563, 374, 388, 140, 479, 331]. **Implementations** [220]. **Implicit** [70, 477, 114, 181, 526]. **Implicitly** [137]. **Improve** [454]. **Improved** [146, 219, 77, 263, 231]. **Improving** [333]. **Inaction** [514]. **Incidence** [512]. **Indefinite** [240]. **Indeterminate** [363]. **Index** [445, 328]. **Index-1** [445]. **Indicator** [188, 187]. **Individuals** [65]. **Indo** [551]. **Indo-European** [551]. **Industry** [263]. **Inequalities** [576]. **Inference** [269, 26]. **Infinitary** [43]. **Infinite** [40]. **Inflection** [442]. **Influence** [424]. **Information** [285, 584]. **Infrastructure** [115]. **Initial** [451]. **Inner** [267]. **Input** [444]. **Insertion** [308]. **Insights** [553]. **Instances** [110]. **Instead** [3]. **Instructor** [542]. **Instructor-Assisted** [542]. **Integral** [334, 340, 511, 399, 439, 376]. **Integrals** [369]. **Integrating** [44]. **Integration** [465, 46]. **Integro** [510]. **Intelligence** [553]. **Intelligent** [447, 381]. **Intensional** [45, 41]. **Interactive** [100, 101]. **Interesting** [503]. **Intermediate** [120]. **Interplay** [391]. **Interpolation** [564, 436, 473, 198]. **Interpolator** [197]. **Interpretation** [268]. **Intersecting** [414]. **Intersection** [266]. **Interval** [264, 200, 268, 80, 178, 273, 270, 271, 17]. **Intervals** [275]. **Intracellular** [393]. **Introducing** [584, 509]. **Introduction** [150, 209]. **Intuitionistic** [234, 233]. **Invariant** [395, 509, 368, 447, 184]. **Invariants** [251]. **Inversion** [12]. **Invertible** [524]. **Investigating** [63]. **Investigation** [368]. **Involutive** [575, 521, 531, 532]. **Involving** [272]. **Irregularity** [242, 289, 288, 297]. **Isabelle** [278]. **Isodual** [489]. **Isogenous** [407]. **Isolated** [527, 583]. **Isolating** [138]. **Isolation** [16]. **Isomorphic** [407]. **Isoptics** [462]. **Isoscallop** [195]. **isotropically** [474]. **Isotypeness** [238]. **Issue** [92]. **Items** [350]. **Iteration** [41]. **Iterative** [139, 162].

**Jahangir** [225]. **Janet** [574]. **Jerk** [224]. **Jobs** [79]. **Join** [286]. **Jugs** [312].

**K-Based** [196]. **Kernel** [264, 340, 511, 541, 293]. **Kernels** [564]. **Key** [89, 187]. **Kids** [543]. **Kind** [507]. **Kinds** [476]. **Kinetic** [25]. **Kleisli** [491]. **Knowledge** [238, 52, 92, 235, 239, 343, 378, 46, 501]. **Krull** [120]. **Krull-type** [120]. **Kummer** [88]. **Kutta** [445].

**Labeling** [341, 146, 390, 283, 151, 225]. **Labelings** [230, 226, 286, 76]. **Labelling** [144]. **Labor** [514]. **Lambert** [374]. **Lanczos** [336]. **Landscapes** [110]. **Lane** [491]. **Language** [54, 551]. **Languages** [45, 245]. **Large** [188, 187, 98]. **Larger** [91]. **Latin** [485]. **Lattice** [544, 294, 587]. **Lattices** [184]. **Law** [88]. **Layout** [296]. **Lazy** [45]. **Learn** [430]. **Learning** [371, 454, 442]. **Lebesgue** [376, 475]. **Legs** [310]. **Lempel** [33]. **Length** [348, 79]. **Less** [33, 348]. **Level** [268, 578]. **Lexicographic**

[390]. **Libraries** [93]. **Library** [279, 278, 446, 96]. **Lie** [305, 339, 308]. **Light** [136, 277]. **Lightweight** [357]. **Likert** [350]. **Limitation** [105]. **line** [355]. **Linear** [129, 272, 410, 130, 529, 124, 176, 180, 547, 524, 126, 153, 296, 260, 11, 125, 542, 483]. **Lines** [552, 47]. **Linkage** [485]. **Liquid** [587]. **Local** [110, 70, 124, 71, 227, 322, 441, 215, 400, 32]. **Localization** [559, 271]. **Locally** [145]. **Location** [316, 17]. **Locus** [427, 435]. **Logic** [234, 205, 46, 526]. **Logical** [63]. **Longest** [364]. **Look** [197]. **Look-Ahead** [197]. **Loose** [75]. **Loss** [370]. **Lossless** [104]. **Lotka** [368]. **Low** [104, 564, 22, 359]. **Low-Artifact** [564]. **Low-Complexity** [104]. **LTL** [304]. **Lucid** [44, 41]. **Lumping** [394]. **Lyapunov** [313, 203]. **Lyapunov-Based** [313].

**MAAOR** [394]. **Mac** [491]. **Machine** [454, 380, 196]. **Machining** [198, 196]. **Magic** [230, 149, 154]. **Malicious** [498]. **Management** [92, 501]. **Mandala** [121]. **Manufacturing** [168]. **Many** [568]. **Maple** [471, 563, 430]. **Mappings** [524]. **Maps** [471, 187, 13]. **Market** [514]. **Markov** [372, 444]. **Markovian** [331]. **Markup** [53]. **Masses** [377, 474]. **Matching** [37, 355, 31, 105, 311]. **Matching-Star** [311]. **Math** [54, 55]. **Mathematica** [380, 376, 475]. **Mathematical** [49, 52, 92, 100, 97, 343, 95, 319, 553, 96]. **Mathematics** [549, 93, 235, 371, 347, 193, 344, 276]. **MathML** [191]. **Matrices** [415, 416, 420, 428, 179, 510, 422, 187, 421]. **Matrix** [19, 12, 419, 538, 22]. **Matroids** [184]. **Maude** [495]. **Max** [224]. **Maximin** [150]. **McEliece** [85]. **MDS** [461]. **Mean** [370, 383]. **Mean-Value** [383]. **Meandering** [306]. **Meandric** [458]. **Means** [564, 479, 451, 217]. **Measurable** [312]. **Measure** [213, 475]. **Mechanical** [172, 540]. **Mechanics** [505]. **Mechanisms** [485]. **mega** [52]. **Membership** [494, 439, 265]. **Membrane** [330]. **Memories** [567]. **Memory** [357, 359, 570, 459]. **Mesh** [281]. **Messages** [269]. **Method** [515, 401, 129, 424, 61, 529, 333, 434, 266, 399, 479, 587, 502, 336, 398, 51, 353, 16]. **Methodology** [270]. **Methods** [465, 478, 535, 560, 66, 245, 162, 445, 164, 394, 273, 241, 270]. **Metric** [213, 294]. **Metrics** [211]. **Microarray** [36]. **Middle** [74]. **Miller** [403, 404]. **Min** [224]. **Minded** [537]. **Minima** [74]. **Minimal** [428, 311]. **Minimax** [150]. **Minimum** [365, 330, 155]. **Minkowski** [349]. **MINLP** [263]. **Mirka** [403, 404]. **Mirroring** [229]. **Mismatch** [35]. **Mixed** [416, 397]. **Mixture** [237]. **Mizar** [51]. **Möbius** [183]. **Mode** [274]. **Model** [393, 512, 166, 237, 25, 67, 270, 513, 331]. **Modeling** [372, 434]. **Modelled** [584]. **Modelling** [553]. **Models** [238, 61, 64, 164, 149]. **Modified** [436, 473]. **Modular** [460, 186, 386]. **Module** [133]. **Modules** [480, 373, 583]. **Moduli** [250]. **Molecules** [321]. **Monochromatic** [220]. **Monodromy** [255]. **Monomial** [129]. **Monomial-by-Monomial** [129]. **Moon** [465]. **Moore** [287]. **Motifs** [236]. **Motion** [224, 479, 380]. **Motions** [320, 560]. **Motivating** [537]. **Moulton** [465]. **Moving** [530, 560]. **Multi** [168, 444, 196, 400, 217]. **Multi-Axis** [196]. **Multi-channel** [444]. **Multi-Granulations** [217]. **Multi-Objective** [168]. **Multi-way** [400]. **Multidimensional** [349, 553]. **Multilingual** [219]. **Multinomial** [448]. **Multiple** [586, 533, 534, 514, 47, 331]. **Multiplication** [179, 280]. **Multiplying** [488]. **Multiprecision** [171]. **Multitarget** [543]. **Multivariate** [563, 8, 431, 18, 484]. **Mutations** [30]. **My** [578].

**Nanning** [570]. **Nanoscale** [434]. **Nanotechnology** [434]. **NC** [196]. **Near**

[332, 214, 215, 209, 210, 421, 218]. **Nearly** [421]. **Nearness** [212, 213, 214, 216, 217]. **Necklace** [300]. **Neighborhood** [150, 217]. **Neighbourhoods** [213]. **Network** [406, 290, 331]. **Networking** [580]. **Networks** [584, 146, 24, 269, 228, 534, 444, 165, 152, 60, 513, 329, 59]. **Newton** [529, 494, 113, 114, 254]. **Noise** [424]. **Non** [202, 455, 272, 30, 269, 340, 586, 342, 86, 157, 474, 583, 421]. **Non-Archimedean** [202]. **Non-Associativity** [342]. **Non-existence** [421]. **Non-isolated** [583]. **Non-isotropically** [474]. **Non-Linear** [272]. **Non-Optimality** [86]. **Non-overlapping** [30]. **Non-preemptive** [455]. **Non-Sorted** [157]. **Noncommutative** [460, 189, 223]. **Nonexistence** [287]. **Nonholonomic** [313]. **Nonisomorphism** [50]. **Nonlinear** [124, 478, 333, 167, 262, 266, 524, 187]. **Nonlocal** [127]. **Nonplanar** [59]. **Nontrivial** [383]. **Nonuniform** [178]. **Nori** [464]. **Normal** [123, 478]. **Note** [145, 414, 473, 382]. **Nugis** [574]. **Number** [143, 237, 430, 140, 293, 557]. **Numbers** [439, 3]. **Numeric** [529, 168, 356, 335, 392, 506]. **Numerical** [465, 172, 477, 494, 15, 487]. **Numerically** [3]. **NURBS** [197].

**Object** [44]. **Object-Orientation** [44]. **Objective** [168]. **Objects** [192, 493, 239, 492]. **Oblivious** [107]. **Obtaining** [89]. **Odd** [489, 558]. **ODE** [61]. **ODEs** [529, 519]. **Off** [281]. **Off-Step** [281]. **Offsets** [70, 548, 580]. **Olympiad** [319]. **On-line** [355]. **One** [143, 519, 348, 395, 268]. **One-Parameter** [395]. **ones** [550]. **Online** [277]. **Only** [89]. **Open** [150, 446]. **OpenMath** [57, 191]. **Operational** [127, 510, 223]. **Operations** [303, 77, 386]. **Operator** [340, 125]. **Operators** [334, 511, 562, 122, 437, 11, 10]. **optic** [434]. **Optical** [246]. **Optimal** [393, 457, 162, 224, 80, 337, 305]. **Optimality** [86]. **Optimising** [87]. **Optimization** [15, 168, 263]. **Optimizing** [160]. **Orbit** [465, 530]. **Order** [450, 577, 410, 489, 481, 535, 499, 162, 356, 388, 205, 322, 181, 187, 125, 582, 11]. **Ordinary** [477, 124, 481, 535, 526]. **Ore** [480]. **Organization** [52, 513]. **Orientation** [44]. **Orientations** [530]. **Oriented** [293]. **Orthogonal** [508, 586]. **Oscillations** [478]. **Oscillator** [78]. **Oshima** [487]. **Other** [147]. **Outer** [419, 267, 475]. **Output** [487]. **Overcoming** [105]. **Overlap** [391]. **overlapping** [30]. **Overthrow** [241]. **Oxide** [273].

**P** [569]. **Paced** [542]. **Pagenumber** [82]. **PageRank** [394]. **Paired** [511]. **Pairing** [558, 408]. **Pairing-Based** [408]. **Pairwise** [424]. **Palindromic** [364]. **Paradigm** [44, 362]. **Parallel** [552, 104, 105, 220]. **Parameter** [395, 509, 388, 274]. **Parameter-Order** [388]. **Parameterization** [258, 436, 137]. **Parameters** [290, 352]. **Parametric** [115, 116, 269, 176, 369, 206, 439, 11, 446, 137]. **Parametrizations** [221]. **Parametrized** [322]. **Partial** [124, 485, 227, 122, 11, 125]. **Partially** [400]. **Particles** [269]. **Particular** [160]. **Partition** [365, 299]. **Partitional** [76, 147]. **Partitioning** [73, 229, 306]. **Passengers** [537]. **Path** [139, 499, 496, 195, 80]. **Path-Following** [139]. **Pattern** [220, 36, 31, 105, 215]. **Patterns** [248, 438]. **PBD** [414]. **PBW** [583]. **PDE** [524]. **Pendulum** [478]. **Perceptual** [214]. **Perfect** [415, 421]. **Performance** [174]. **Periodic** [13]. **Permutation** [438, 283]. **Persistent** [464, 387]. **Personal** [569]. **Perspective** [433, 449]. **Perturbation** [25, 322]. **Perturbations** [474]. **Perturbed** [507]. **Phase** [78, 156, 271, 587]. **Phylogenetics** [551]. **Physics** [433]. **Picard** [529].

**Piecewise** [192]. **Pipelines** [553]. **Piranha** [479]. **Pivoting** [158]. **Places** [481]. **Planar** [485, 313, 384, 59]. **Plane** [118, 113, 462, 548, 257, 155, 11]. **Planes** [582]. **Planetary** [474, 479]. **Planning** [194]. **Plans** [245]. **Plates** [338]. **Plick** [143]. **Point** [211, 27, 525, 442]. **Point-Free** [211]. **Points** [544, 221, 13, 507]. **Polar** [341]. **Polish** [96]. **Polygon** [113, 114]. **Polygons** [349, 503]. **Polyhedra** [303]. **Polymerase** [362]. **Polynomial** [367, 61, 251, 8, 160, 167, 161, 69, 492, 456, 203, 396, 206, 79, 508, 68, 187, 138, 451, 17, 137]. **Polynomially** [524]. **Polynomials** [409, 253, 428, 563, 19, 466, 483, 12, 18, 523, 497, 183, 184, 120, 484, 565, 16, 507, 437]. **Polyominoes** [554]. **Polytope** [422]. **Polytopes** [254, 494]. **Pommaret** [531]. **Populations** [65]. **Possible** [42]. **Potential** [383]. **Power** [195, 439]. **Practical** [103]. **Practice** [361]. **Pre** [218]. **Pre-** [218]. **Precision** [255, 397, 260]. **Preemptive** [79, 455]. **Prefix** [261]. **Preservation** [165]. **Primary** [559]. **Prime** [489, 71, 559]. **Principle** [224]. **Principled** [169]. **Prior** [237]. **Privacy** [405]. **Probabilities** [26]. **Problem** [365, 496, 312, 377, 474, 178, 537, 384, 81, 587, 353, 159]. **Problems** [37, 272, 127, 333, 107, 457, 27, 439, 263, 223, 317, 316, 319, 63, 336]. **Procedure** [204]. **Process** [372, 15, 444, 65, 263]. **Processor** [455]. **Produce** [487]. **Producing** [559]. **Product** [71, 227, 390, 151]. **Products** [342, 177, 227]. **Prof.** [569]. **Professor** [403]. **Profiles** [362]. **Program** [495]. **Programming** [41]. **Programs** [495, 172]. **Projection** [401]. **Projections** [221]. **Projective** [179, 582]. **Projects** [94]. **Proof** [99, 50, 248]. **Proofs** [172, 224, 344, 276, 51]. **Propagation** [52]. **Propelinear** [417]. **Proper** [80]. **Properties** [142, 326, 539, 584, 111, 176, 391, 562, 497, 188, 503]. **Property** [165]. **Protected** [555]. **Protein** [362]. **Protocols** [187]. **Prove** [562]. **Provers** [319]. **Provide** [553]. **Proving** [315, 576, 432, 499]. **Proximities** [211, 391]. **Proximity** [215]. **Pseudo** [129]. **Pseudo-Linear** [129]. **Pseudospectra** [19]. **Pseudozero** [18]. **Pseudozeros** [17]. **PTIME** [176]. **Publications** [98]. **Puiseux** [519]. **Pursuers** [268]. **Puzzles** [557].

**QE** [302, 167]. **QoS** [207]. **QoS-Aware** [207]. **Quadratic** [431, 161, 396, 508]. **Quadrilateral** [577]. **Qualification** [270]. **Quality** [468, 487]. **Quantified** [261]. **Quantifier** [261, 26]. **Quantum** [308, 280, 461]. **Quasi** [417, 211, 483, 437, 85]. **Quasi-Cyclic** [85]. **Quasi-Hadamard** [417]. **Quasi-linear** [483]. **Quasi-Metrics** [211]. **Quasi-polynomials** [437]. **Quaternion** [389]. **Quaternionic** [415]. **Query** [54]. **Querying** [47]. **Questionnaire** [350]. **Queueing** [444, 331]. **Quiver** [367]. **Quotient** [532].

**Radical** [21]. **Radius** [178]. **Railway** [245, 241, 452]. **Ramsey** [311]. **Random** [111, 25]. **Randomized** [106]. **Range** [74]. **Rank** [22]. **Rankin** [379]. **Ranking** [55]. **Rate** [512]. **Rates** [377, 474]. **Rational** [258, 519, 113, 43, 201]. **Rays** [422]. **Reachability** [303, 266]. **Reachable** [267]. **Reaction** [61, 166, 228]. **Ready** [576]. **Real** [279, 118, 175, 466, 160, 18, 375, 280, 140, 273, 526, 197, 16, 550]. **Real-Time** [273, 197, 375]. **Reasonable** [176]. **Reasoning** [244, 46]. **Recognition** [97, 227]. **Recognized** [310]. **Recognizing** [520]. **Recollections** [569]. **Reconstructing** [228]. **Rectilinear** [224]. **Recurrence** [180]. **Recurrences** [577]. **Recursive** [300]. **Recycling** [248]. **Reduced** [68]. **Reducibility** [40]. **Reduction** [130, 61, 166, 373, 534]. **Redundant** [20, 86]. **Refinement** [125]. **Reflections** [449, 578, 585]. **Reforms** [514].

**Regular** [129, 123, 518, 429, 503, 328, 151]. **Regularization** [353]. **Regulatory** [165]. **Related** [147, 289]. **Relations** [43, 183, 356]. **Relative** [415, 373, 532]. **Relator** [348]. **Relaxed** [499, 203]. **Relevance** [55]. **Reliability** [406]. **Remarks** [244]. **Repeats** [103]. **Representable** [326]. **Representation** [323, 169, 46, 344]. **Representations** [360, 356, 472]. **Represented** [563]. **Residues** [441]. **Resistance** [433]. **Resolvability** [152]. **Resonance** [478]. **Resources** [584]. **Response** [393]. **Restrained** [298]. **Resultants** [122, 14]. **Results** [27, 487, 83]. **Retrieval** [343, 214]. **Revisited** [180, 241]. **Rewrite** [101]. **Rid** [56]. **Riemannian** [568]. **Riesz** [353]. **Right** [382]. **Ring** [69, 68, 439, 108, 10]. **Ringed** [258]. **Rings** [367, 158, 532, 472, 68, 10]. **Ritt** [346]. **RMQ** [107]. **RMSQ** [107]. **RNA** [31]. **Robotics** [194]. **Robots** [200]. **Robust** [422, 273, 274, 6]. **Root** [160, 67, 16]. **Roots** [181, 138]. **Rota** [131, 132]. **Rotation** [450]. **Rows** [557]. **Rule** [378]. **Runge** [445]. **RWTH** [570].

**Safety** [495, 176]. **Sailboat** [200]. **SAT** [110, 106]. **Satisfaction** [272]. **Satisfiability** [304]. **Saving** [14]. **Scaffolding** [136]. **Scalability** [104]. **Scale** [111]. **Scales** [534]. **Scenarios** [459]. **Scheduling** [455, 79]. **Scheme** [253, 245]. **School** [476]. **Science** [347, 276, 96]. **Scientific** [4, 174, 173, 98]. **Scoring** [35]. **Scratch** [401]. **Sculptured** [196]. **Search** [110, 77, 108, 55]. **Searching** [560]. **Second** [11, 507]. **Second-** [11]. **Sections** [382]. **sectors** [504]. **Secure** [498, 298]. **Security** [285, 404]. **Seidel** [413]. **Selected** [586]. **Self** [146, 513, 542]. **Self-organization** [513]. **Self-Paced** [542]. **Self-Stabilizing** [146]. **Semantic** [229, 53, 345]. **Semantics** [191]. **Semi** [117, 444, 359, 32]. **Semi-Algebraic** [117]. **Semi-external** [359]. **Semi-local** [32]. **Semicontinuity** [566]. **Semigroups** [348]. **Sensitivity** [237]. **Sensor** [269]. **Separations** [424]. **Sequence** [508, 362]. **Sequences** [355, 31, 421, 448]. **Sequential** [220]. **Serbia** [95]. **Series** [519, 307, 195, 439]. **Serre** [130]. **Server** [498]. **Service** [385, 277]. **Set** [54, 420, 18, 330, 266, 265]. **Sets** [285, 415, 323, 575, 332, 254, 214, 268, 117, 186, 215, 209, 210, 265, 267, 346, 218]. **Shape** [441]. **Sheaf** [218]. **Shift** [340]. **Short** [518]. **Siamese** [414]. **Side** [407]. **Side-Channel** [407]. **Sign** [8]. **Signature** [214, 469]. **Signature-based** [214]. **Similar** [355]. **Similarities** [548]. **Simple** [480, 4, 240]. **Simplified** [353]. **Simulation** [445, 516, 380]. **Single** [498, 281]. **Singleton** [59]. **Singular** [334, 340, 511, 133]. **Singularities** [526, 583]. **Singularity** [527]. **SIRS** [512]. **Sixty** [406]. **Size** [420, 105]. **Skew** [367, 482, 413]. **Slabs** [516]. **Sliding** [274]. **Small** [409, 89, 187]. **Smooth** [136]. **Smoothness** [409]. **SMS** [570]. **Snarks** [295]. **Snowflake** [282]. **Social** [244]. **Soft** [233]. **Software** [494, 432, 476, 173]. **Solid** [273, 319, 587]. **Solution** [261, 245, 195, 281]. **Solutions** [129, 519, 25, 180, 201, 557]. **Solve** [63]. **Solved** [537]. **Solvers** [262]. **Solving** [272, 89, 481, 365, 496, 266, 399, 206, 439, 353, 159]. **Some** [244, 334, 483, 342, 449, 585, 13, 232, 405, 461, 421, 475, 578]. **Sorted** [157]. **Sorting** [332]. **SOS** [167]. **SOS-QE** [167]. **Source** [446]. **Space** [33, 14, 6, 305, 353]. **Spaced** [358]. **Spaces** [345, 189, 252, 215, 422, 250, 309, 216]. **Spain** [94]. **Spanning** [73]. **Special** [92, 235, 500, 511, 301, 160, 193, 335, 392, 506, 325, 276]. **Specialization** [495]. **Specific** [245, 553]. **Specification** [239]. **Specifying** [101]. **Spectra** [334]. **Spectral** [229]. **Spiders** [310]. **Spline** [252, 137, 222]. **Splines** [5, 487]. **Spread** [150, 543]. **Spring** [478]. **Spurious** [56]. **Squares** [485]. **Stability** [512, 64, 164, 322, 28]. **Stabilizing**

[146]. **Standard** [566]. **Star** [227, 588, 311]. **State** [144, 385, 520, 200, 338, 274]. **Stationary** [560]. **Statistical** [404]. **Steady** [520]. **STEM** [543]. **Step** [161, 281]. **Stochastic** [62, 171, 26]. **Stokes** [515]. **Strategies** [101, 262]. **Strength** [242, 483, 289, 288, 297]. **Stress** [338]. **String** [355, 363, 365, 103, 32]. **Strings** [356]. **Strong** [71, 294, 293]. **Structural** [326, 553]. **Structure** [374, 568, 362]. **Structured** [22]. **Structures** [24, 541, 556, 352, 551]. **Students** [430, 376, 475]. **Studies** [248, 108]. **Study** [340, 511, 369, 429, 379, 389]. **Sub** [256]. **Sub-Decompositions** [256]. **Subclass** [451]. **Subdivision** [262]. **Submanifolds** [136]. **Subnetwork** [60]. **Subpavings** [267]. **Subscripts** [49]. **Subsequence** [364]. **Subset** [349]. **Substitution** [220]. **Substrings** [30]. **Subway** [471]. **Success** [449, 585]. **Successive** [190]. **Succinct** [360]. **Suffix** [358, 357]. **Suite** [174]. **Sum** [349]. **Summands** [240]. **Summation** [240]. **Summations** [448]. **Sums** [533, 150]. **Super** [226, 149]. **Superelliptic** [91]. **Superposition** [204, 205]. **Superquadratic** [161]. **Superscripts** [49]. **Supplemented** [432]. **Support** [411, 378]. **Supra** [142]. **Supra-Hereditary** [142]. **Surface** [88, 195, 196, 197]. **Surfaces** [258, 115, 116, 389]. **Survey** [343, 177, 404]. **SVD** [21]. **Swarm** [313]. **Sweep** [281]. **Swinging** [380]. **Swiss** [159]. **swMATH** [385]. **Symbol** [11]. **Symbolic** [529, 124, 581, 334, 340, 511, 379, 530, 168, 335, 392, 506, 396, 65, 14, 502]. **Symbolic-Numeric** [529, 168]. **Symmetric** [413]. **Symmetries** [124, 190]. **Symmetry** [457, 524, 324]. **Symmetry-Based** [524]. **Synchronization** [78, 513]. **Syntactic** [541, 556, 352, 551]. **Syntax** [387]. **Synthesizing** [196]. **Synthetic** [536]. **System** [495, 530, 560, 432, 486, 447, 479, 196, 449, 585, 383, 505, 502, 26]. **Systems** [202, 129, 130, 61, 166, 89, 519, 483, 535, 302, 25, 303, 351, 201, 368, 167, 523, 161, 246, 27, 492, 322, 203, 206, 247, 439, 28, 273, 578, 583, 51]. **Syzygies** [456].

**Tactics** [99]. **Tamari** [574]. **Task** [455]. **TASS** [173]. **Tau** [333, 399, 398]. **Teaching** [371, 542]. **Techniques** [460, 386, 405, 274, 32]. **Technologies** [580]. **Telescoping** [128, 533]. **Temporal** [46]. **Ternary** [356]. **Test** [409, 186]. **Testing** [466, 8, 546, 545, 525]. **Tests** [4]. **Tetrahedral** [294]. **Text** [219, 363]. **th** [181]. **Their** [310, 548, 535, 551, 405]. **Them** [56]. **Theorem** [491, 499, 319]. **Theoretic** [218]. **Theories** [205]. **Theory** [202, 133, 518, 244, 581, 430, 212, 200, 308, 479, 325, 383]. **Thermal** [516]. **Thinning** [20]. **Third** [11]. **Third-** [11]. **Three** [348, 338, 377, 474, 297]. **Three-Body** [377, 474]. **Three-Dimensional** [338]. **Through-Cracked** [338]. **TiGL** [446]. **Tikhonov** [353]. **Time** [515, 272, 33, 535, 534, 224, 330, 79, 47, 108, 273, 449, 197, 375]. **Time-Dependent** [272]. **Time-Fractional** [535]. **Time-Lines** [47]. **Time-Optimal** [224]. **Timed** [204]. **Tolerant** [288]. **Tool** [432, 195]. **Toolkit** [336, 173]. **Tools** [442]. **Topological** [425, 332, 556]. **Topology** [552, 118, 117, 387]. **Tori** [291]. **Toricity** [520]. **Toroidal** [242]. **Torsion** [527]. **Torus** [290]. **Total** [242, 289, 288, 297]. **Traceability** [145]. **Traces** [88]. **Tracking** [274]. **Tractable** [38]. **Trajectory** [194, 274]. **Transcendental** [181]. **Transform** [324, 359]. **Transformation** [52]. **Transformations** [363]. **Transforming** [98]. **Transforms** [536]. **Transition** [338]. **Transitions** [156]. **Transitive** [579]. **Translational** [389]. **TransLucid** [41]. **Transmission** [584, 337]. **Transmit** [584]. **Transparent** [378]. **Tree** [146, 97]. **Trees** [73, 111, 360, 148, 155]. **Triangle** [318, 316, 504]. **Triangular** [523].

**Triangulating** [136]. **Triangulation** [305]. **Triangulations** [468]. **Trifolium** [429]. **Trivariate** [201, 252]. **Tropical** [494, 522]. **Tropicalization** [250]. **Truncation** [184]. **Truth** [315]. **Tuberculosis** [513]. **Turtle** [543]. **Tutorial** [36]. **Twin** [414]. **Two** [548, 509, 530, 368, 188, 550, 268, 224, 312, 474, 181, 85, 299, 125]. **Two-Connected** [299]. **Two-Edge** [299]. **Two-Factor** [125]. **Two-Parameter** [509]. **Two-Planetary** [474]. **Type** [230, 565, 140, 120]. **Types** [232].

**Ugly** [93]. **Ultrafilter** [216]. **Unambiguous** [34]. **Unavoidable** [315]. **Uncertainty** [315]. **Underwater** [271]. **Uniform** [292]. **Uniformities** [212]. **Union** [226]. **Unistochastic** [422]. **Unitals** [582]. **univalent** [451]. **Univariate** [16]. **Universal** [321]. **Unnecessary** [559]. **Unusual** [35]. **Unweighted** [178]. **Upper** [521]. **Usage** [386]. **Use** [430, 442]. **Used** [584]. **User** [279]. **User-Friendly** [279]. **Using** [401, 255, 33, 269, 462, 485, 566, 15, 486, 454, 21, 434, 53, 375, 164, 190, 46, 241, 543, 271, 487, 502, 389, 376, 475, 166, 213]. **Utility** [57].

**Validated** [175]. **Validation** [529]. **Value** [268, 383]. **Variable** [377, 304, 281]. **Variables** [89, 181]. **Variants** [37, 89]. **Variational** [222]. **Varieties** [520, 525]. **Varying** [35, 474]. **Vehicles** [313, 271]. **Verhulst** [25]. **Verification** [172, 176, 97, 262, 247, 452, 260, 174, 51]. **Verification-Driven** [247]. **Verifying** [245]. **Version** [77, 318, 344]. **Versioning** [42]. **Versus** [266]. **Vertex** [288, 154, 459]. **Vertices** [305]. **Via** [439, 324, 495, 220, 12, 419, 492, 508, 551, 583]. **VIBes** [275]. **Viral** [362]. **Virtual** [515, 96]. **Virus** [543]. **Viscous** [281]. **Visibility** [155]. **Visualisation** [477]. **Visualizer** [275]. **Visually** [543]. **Vladimir** [569, 572, 528, 571, 570, 567]. **Volterra** [368]. **Volumes** [109]. **Voronoï** [552].

**Wadge** [43, 39, 40]. **way** [400]. **Weak** [410]. **Web** [289]. **Weber** [517]. **Weighted** [37, 499, 437]. **Weil** [558]. **well** [274]. **Weyl** [367]. **Wheeler** [359]. **Wheels** [230]. **Whose** [305]. **Wildcards** [54]. **Wirelength** [153]. **Wireless** [586]. **Within** [398, 245]. **Without** [370, 559]. **Witness** [254]. **Word** [326, 105]. **Words** [35, 131, 132, 544]. **Worlds** [42].

**XaoS** [549]. **XML** [98].

**Year** [449]. **Years** [347, 406, 571]. **Young** [372].

**Zero** [69, 179, 525, 4]. **Zero-Dimensionality** [525]. **Zeros** [523, 6]. **Zeta** [91]. **Ziv** [33]. **Zonal** [497]. **Zonotope** [266]. **Zonotope-Based** [266].

# References

**Wang:2007:E**

[1] Dongming Wang and Zhiming Zheng. Editorial. *Mathematics in Computer Science*, 1(1):1–2, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=1&spage=1`.

**Yap:2007:F**

[2] Chee K. Yap and Hoon Hong. Foreword. *Mathematics in Computer Science*, 1(1):3–7, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.`

asp?genre=article&issn=1661-8270&volume=1&issue=1&spage=3.

**Trefethen:2007:CNF**

[3] Lloyd N. Trefethen. Computing numerically with functions instead of numbers. *Mathematics in Computer Science*, 1(1):9–19, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=1&spage=9.

**Richardson:2007:ZTC**

[4] Daniel Richardson. Zero tests for constants in simple scientific computation. *Mathematics in Computer Science*, 1(1):21–37, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=1&spage=21.

**Ghosh:2007:ACS**

[5] Sunayana Ghosh, Sylvain Petitjean, and Gert Vegter. Approximation by conic splines. *Mathematics in Computer Science*, 1(1):39–69, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=1&spage=39.

**Sharma:2007:RAZ**

[6] Vikram Sharma. Robust approximate zeros in Banach space. *Mathematics in Computer Science*, 1(1):71–109, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=1&spage=71.

**vanderHoeven:2007:EAC**

[7] Joris van der Hoeven. On effective analytic continuation. *Mathematics in Computer Science*, 1(1):111–175, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=1&spage=111.

**ElDin:2007:TSC**

[8] Mohab Safey El Din. Testing sign conditions on a multivariate polynomial and applications. *Mathematics in Computer Science*, 1(1):177–207, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=1&spage=177.

**Wang:2007:F**

[9] Dongming Wang and Lihong Zhi. Foreword. *Mathematics in Computer Science*, 1(2):209–210, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=2&spage=209.

**Zhou:2007:CGB**

[10] Meng Zhou and Franz Winkler. On computing Gröbner bases in rings of differential operators with coefficients in a ring. *Mathematics in Computer Science*, 1(2):211–223, December 2007. CODEN ???? ISSN 1661-8270 (print),

1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=2&spage=211.

**Shemyakova:2007:PFS**

[11] Ekaterina Shemyakova. Parametric factorizations of second-, third- and Fourth–Order linear partial differential operators with a completely factorable symbol on the plane. *Mathematics in Computer Science*, 1(2):225–237, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=2&spage=225.

**Feinsilver:2007:IAF**

[12] Philip Feinsilver and René Schott. Inversion of analytic functions via canonical polynomials: a matrix approach. *Mathematics in Computer Science*, 1 (2):239–251, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=2&spage=239.

**Romanovski:2007:BPP**

[13] Valery G. Romanovski. Bifurcations of periodic points of some algebraic maps. *Mathematics in Computer Science*, 1(2):253–265, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=2&spage=253.

**Pearson:2007:SSC**

[14] Jane M. Pearson and Noel G. Lloyd. Space saving calculation of symbolic resultants. *Mathematics in Computer Science*, 1(2):267–290, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=2&spage=267.

**Gu:2007:UCA**

[15] Nong Gu, Daniel Lazard, Fabrice Rouillier, and Yong Xiang. Using computer algebra to certify the global convergence of a numerical optimization process. *Mathematics in Computer Science*, 1(2):291–304, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=2&spage=291.

**Zhang:2007:NMR**

[16] Ting Zhang and Bican Xia. A new method for real root isolation of univariate polynomials. *Mathematics in Computer Science*, 1(2):305–320, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=2&spage=305.

**Sekigawa:2007:LPC**

[17] Hiroshi Sekigawa and Kiyoshi Shirayanagi. On the location of pseudozeros of a complex interval polynomial. *Mathematics in Computer Science*, 1(2):321–335, December 2007. CODEN ???? ISSN 1661-8270 (print),

1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=2&spage=321.

**Graillat:2007:PSR**

[18] Stef Graillat. Pseudozero set of real multivariate polynomials. *Mathematics in Computer Science*, 1(2):337–352, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=2&spage=337.

**Corless:2007:PMP**

[19] Robert M. Corless and Nargol Rezvani. Pseudospectra of matrix polynomials that are expressed in alternative bases. *Mathematics in Computer Science*, 1(2):353–374, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-007-0010-x.

**Abbott:2007:TRE**

[20] John Abbott, Claudia Fassino, and Maria-Laura Torrente. Thinning out redundant empirical data. *Mathematics in Computer Science*, 1(2):375–392, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-007-0020-8.

**Janovitz-Freireich:2007:ARC**

[21] Itnuit Janovitz-Freireich, Lajos Rónyai, and Ágnes Szántó. Approximate radical for clusters: A global approach using Gaussian elimination or SVD. *Mathematics in Computer Science*, 1(2):393–425, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-007-0013-7.

**Sun:2007:SLR**

[22] Dongxia Sun and Lihong Zhi. Structured low rank approximation of a Bezout matrix. *Mathematics in Computer Science*, 1(2):427–437, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-007-0014-6.

**Kotsireas:2008:F**

[23] Ilias S. Kotsireas. Foreword. *Mathematics in Computer Science*, 1(3):439, March 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=3&spage=439.

**Chen:2008:CSN**

[24] William Y. C. Chen, Andreas W. M. Dress, and Winking Q. Yu. Community structures of networks. *Mathematics in Computer Science*, 1(3):441–457, March 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=3&spage=441.

**Ganzha:2008:ESH**

[25] Elena I. Ganzha, Valery M. Loginov, and Sergey P. Tsarev. Exact solutions of hyperbolic systems of kinetic equations. application to Verhulst model

with random perturbation. *Mathematics in Computer Science*, 1(3):459–472, March 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=3&spage=459`.

**Yoshida:2008:IPS**

[26] Hiroshi Yoshida, Katsuhisa Horimoto, and Hirokazu Anai. Inference of probabilities over a stochastic IL-system by quantifier elimination. *Mathematics in Computer Science*, 1(3):473–485, March 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=3&spage=473`.

**Kosub:2008:DRF**

[27] Sven Kosub. Dichotomy results for fixed-point existence problems for Boolean dynamical systems. *Mathematics in Computer Science*, 1(3):487–505, March 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=3&spage=487`.

**Niu:2008:AAS**

[28] Wei Niu and Dongming Wang. Algebraic approaches to stability analysis of biological systems. *Mathematics in Computer Science*, 1(3):507–539, March 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=3&spage=507`.

**Chan:2008:F**

[29] Joseph Wun-Tat Chan and Maxime Crochemore. Foreword. *Mathematics in Computer Science*, 1(4):541–542, June 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=4&spage=541`.

**Chan:2008:NOC**

[30] H. L. Chan, T. W. Lam, W. K. Sung, P. W. H. Wong, and S. M. Yiu. Non-overlapping common substrings allowing mutations. *Mathematics in Computer Science*, 1(4):543–555, June 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=4&spage=543`.

**Iliopoulos:2008:NAP**

[31] Costas S. Iliopoulos, Laurent Mouchard, and M. Sohel Rahman. A new approach to pattern matching in degenerate DNA/RNA sequences and distributed pattern matching. *Mathematics in Computer Science*, 1(4):557–569, June 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=4&spage=557`.

**Tiskin:2008:SLS**

[32] Alexander Tiskin. Semi-local string comparison: Algorithmic techniques and applications. *Mathematics in Computer*

*Science*, 1(4):571–603, June 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=4&spage=571.

**Chen:2008:LZF**

[33] Gang Chen, Simon J. Puglisi, and W. F. Smyth. Lempel–Ziv factorization using less time & space. *Mathematics in Computer Science*, 1(4):605–623, June 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=4&spage=605.

**Beal:2008:UA**

[34] Marie-Pierre Béal, Eugen Czeizler, Jarkko Kari, and Dominique Perrin. Unambiguous automata. *Mathematics in Computer Science*, 1(4):625–638, June 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=4&spage=625.

**Apostolico:2008:SUW**

[35] Alberto Apostolico and Cinzia Pizzi. Scoring unusual words with varying mismatch errors. *Mathematics in Computer Science*, 1(4):639–653, June 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=4&spage=639.

**Giancarlo:2008:TCC**

[36] Raffaele Giancarlo, Davide Scaturro, and Filippo Utro. A tutorial on computational cluster analysis with applications to pattern discovery in microarray data. *Mathematics in Computer Science*, 1(4):655–672, June 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=4&spage=655.

**Banerjee:2008:EAV**

[37] Satyajit Banerjee, Atish Datta Chowdhury, and Subhas Kumar Ghosh. Efficient algorithms for variants of weighted matching and assignment problems. *Mathematics in Computer Science*, 1 (4):673–688, June 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=4&spage=673.

**Farago:2008:GTD**

[38] András Faragó. A general tractable density concept for graphs. *Mathematics in Computer Science*, 1(4):689–699, June 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=4&spage=689.

**Plaice:2008:HBW**

[39] John Plaice and Mehmet A. Orgun. In honour of Bill Wadge. *Mathematics in Computer Science*, 2(1):1–3, November 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=1&spage=1.

**Selivanov:2008:WRI**

[40] Victor Selivanov. Wadge reducibility and infinite computations. *Mathematics in Computer Science*, 2(1):5–36, November 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=1&spage=5`.

**Plaice:2008:LTI**

[41] John Plaice, Blanca Mancilla, and Gabriel Ditu. From Lucid to TransLucid: Iteration, dataflow, intensional and Cartesian programming. *Mathematics in Computer Science*, 2(1): 37–61, November 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=1&spage=37`.

**Mancilla:2008:PWV**

[42] Blanca Mancilla and John Plaice. Possible worlds versioning. *Mathematics in Computer Science*, 2(1):63–83, November 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=1&spage=63`.

**Finkel:2008:WDI**

[43] Olivier Finkel. Wadge degrees of infinitary rational relations. *Mathematics in Computer Science*, 2(1):85–102, November 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=1&spage=85`.

**Orchard:2008:ILD**

[44] Dominic A. Orchard and Steve Matthews. Integrating Lucid's declarative dataflow paradigm into object-orientation. *Mathematics in Computer Science*, 2(1): 103–122, November 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=1&spage=103`.

**Charalambidis:2008:EII**

[45] Angelos Charalambidis, Athanasios Grivas, Nikolaos S. Papaspyrou, and Panos Rondogiannis. Efficient intensional implementation for lazy functional languages. *Mathematics in Computer Science*, 2(1):123–141, November 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=1&spage=123`.

**Orgun:2008:KRR**

[46] Mehmet A. Orgun, Chuchang Liu, and Abhaya C. Nayak. Knowledge representation, reasoning and integration using temporal logic with clocks. *Mathematics in Computer Science*, 2 (1):143–163, November 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=1&spage=143`.

**Orgun:2008:QHD**

[47] Mehmet A. Orgun. Querying historical data over multiple time-lines.

*Mathematics in Computer Science*, 2 (1):165–191, November 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=1&spage=165`.

**Kerber:2008:F**

[48] Manfred Kerber. Foreword. *Mathematics in Computer Science*, 2(2): 193–194, December 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=2&spage=193`.

**Aly:2008:ISS**

[49] Walaa Aly, Seiichi Uchida, and Masakazu Suzuki. Identifying subscripts and superscripts in mathematical documents. *Mathematics in Computer Science*, 2(2):195–209, December 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=2&spage=195`.

**Cohen:2008:APG**

[50] Arjeh M. Cohen, Jan Willem Knopper, and Scott H. Murray. Automatic proof of graph nonisomorphism. *Mathematics in Computer Science*, 2(2):211–229, December 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=2&spage=211`.

**Urban:2008:ABC**

[51] Josef Urban and Geoff Sutcliffe. ATP-based Cross–Verification of Mizar proofs: Method, systems, and first experiments. *Mathematics in Computer Science*, 2(2):231–251, December 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=2&spage=231`.

**Autexier:2008:OTP**

[52] Serge Autexier, Christoph Benzmüller, Dominik Dietrich, and Marc Wagner. Organization, transformation, and propagation of mathematical knowledge in Ω mega. *Mathematics in Computer Science*, 2(2):253–277, December 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=2&spage=253`.

**Kohlhase:2008:ULS**

[53] Michael Kohlhase. Using LaTeX as a semantic markup format. *Mathematics in Computer Science*, 2(2):279–304, December 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=2&spage=279`.

**Altamimi:2008:MQL**

[54] Moody Ebrahem Altamimi and Abdou Youssef. A math query language with an expanded set of wildcards. *Mathematics in Computer Science*, 2(2):305–331, December 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=2&spage=305.

**Youssef:2008:RRH**

[55] Abdou S. Youssef. Relevance ranking and hit description in math search. *Mathematics in Computer Science*, 2 (2):333–353, December 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=2&spage=333.

**Coen:2008:SDE**

[56] Claudio Sacerdoti Coen and Stefano Zacchiroli. Spurious disambiguation errors and how to get rid of them. *Mathematics in Computer Science*, 2(2):355–378, December 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=2&spage=355.

**Davenport:2008:FEO**

[57] James H. Davenport and Paul Libbrecht. The freedom to extend OpenMath and its utility. *Mathematics in Computer Science*, 2(2):379–398, December 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=2&spage=379.

**Anai:2009:F**

[58] Hirokazu Anai and Katsuhisa Horimoto. Foreword. *Mathematics in Computer Science*, 2(3):399–400, March 2009. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=3&spage=399.

**Tamura:2009:ASA**

[59] Takeyuki Tamura and Tatsuya Akutsu. Algorithms for singleton attractor detection in planar and nonplanar AND/OR Boolean networks. *Mathematics in Computer Science*, 2(3):401–420, March 2009. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=3&spage=401.

**Siebert:2009:DBB**

[60] Heike Siebert. Deriving behavior of Boolean bioregulatory networks from subnetwork dynamics. *Mathematics in Computer Science*, 2(3):421–442, March 2009. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=3&spage=421.

**Boulier:2009:TAR**

[61] François Boulier, François Lemaire, Alexandre Sedoglavic, and Asli Ürgüplü. Towards an automated reduction method for polynomial ODE models of biochemical reaction systems. *Mathematics in Computer Science*, 2 (3):443–464, March 2009. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.

asp?genre=article&issn=1661-8270&volume=2&issue=3&spage=443.

**Bortolussi:2009:HDS**

[62] Luca Bortolussi and Alberto Policriti. Hybrid dynamics of stochastic $\pi$-calculus. *Mathematics in Computer Science*, 2(3):465–491, March 2009. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=3&spage=465.

**Sturm:2009:IAL**

[63] Thomas Sturm, Andreas Weber, Essam O. Abdel-Rahman, and M'hammed El Kahoui. Investigating algebraic and logical algorithms to solve Hopf bifurcation problems in algebraic biology. *Mathematics in Computer Science*, 2(3):493–515, March 2009. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=3&spage=493.

**ElKahoui:2009:SDF**

[64] Mḥammed El Kahoui and Adamou Otto. Stability of disease free equilibria in epidemiological models. *Mathematics in Computer Science*, 2(3):517–533, March 2009. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=3&spage=517.

**McCaig:2009:IPS**

[65] Chris McCaig, Rachel Norman, and Carron Shankland. From individuals to populations: a symbolic process algebra approach to epidemiology. *Mathematics in Computer Science*, 2(3):535–556, March 2009. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=3&spage=535.

**Ilie:2009:CCE**

[66] Silvana Ilie, Robert M. Corless, and Chris Essex. The computational complexity of extrapolation methods. *Mathematics in Computer Science*, 2 (4):557–566, December 2009. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=4&spage=557.

**Pikkarainen:2009:BMR**

[67] Hanna K. Pikkarainen and Josef Schicho. A Bayesian model for root computation. *Mathematics in Computer Science*, 2(4):567–586, December 2009. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=4&spage=567.

**Nabeshima:2009:RGB**

[68] Katsusuke Nabeshima. Reduced Gröbner bases in polynomial rings over a polynomial ring. *Mathematics in Computer Science*, 2(4):587–599, December 2009. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=4&spage=587.

**Kapur:2009:ACG**

[69] Deepak Kapur and Yongyang Cai. An algorithm for computing a Gröbner basis of a polynomial ideal over a ring with zero divisors. *Mathematics in Computer Science*, 2(4):601–634, December 2009. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=4&spage=601`.

**Alcazar:2009:GLB**

[70] Juan Gerardo Alcázar. Good local behavior of offsets to implicit algebraic curves. *Mathematics in Computer Science*, 2(4):635–652, December 2009. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=4&spage=635`.

**Hellmuth:2009:LAP**

[71] Marc Hellmuth, Wilfried Imrich, Werner Klöckl, and Peter F. Stadler. Local algorithms for the prime factorization of strong product graphs. *Mathematics in Computer Science*, 2(4):653–682, December 2009. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=4&spage=653`.

**Miller:2010:F**

[72] Mirka Miller and Koichi Wada. Foreword. *Mathematics in Computer Science*, 3(1):1–2, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=1`.

**Baumgart:2010:PBG**

[73] Matthias Baumgart. Partitioning bispanning graphs into spanning trees. *Mathematics in Computer Science*, 3(1):3–15, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=3`.

**Fischer:2010:FRM**

[74] Johannes Fischer and Volker Heun. Finding range minima in the middle: Approximations and applications. *Mathematics in Computer Science*, 3(1):17–30, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=17`.

**Fujita:2010:LCG**

[75] Satoshi Fujita. Loose cover of graphs. *Mathematics in Computer Science*, 3 (1):31–38, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=31`.

**Ichishima:2010:PLG**

[76] Rikio Ichishima and Akito Oshima. On partitional labelings of graphs. *Mathematics in Computer Science*, 3(1):39–45, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=39.

**Kutzelnigg:2010:IVC**

[77] Reinhard Kutzelnigg. An improved version of cuckoo hashing: Average case analysis of construction cost and search operations. *Mathematics in Computer Science*, 3(1):47–60, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=47.

**Lee:2010:POS**

[78] Sof Anthony Lee. $k$-phase oscillator synchronization for graph coloring. *Mathematics in Computer Science*, 3(1):61–72, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=61.

**Mertzios:2010:PSE**

[79] George B. Mertzios and Walter Unger. Preemptive scheduling of equal-length jobs in polynomial time. *Mathematics in Computer Science*, 3(1):73–84, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=73.

**Mertzios:2010:OAF**

[80] George B. Mertzios and Walter Unger. An optimal algorithm for the $k$-fixed-endpoint path cover on proper interval graphs. *Mathematics in Computer Science*, 3(1):85–96, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=85.

**Sivan:2010:CCP**

[81] Balasubramanian Sivan, S. Harini, and C. Pandu Rangan. On conditional covering problem. *Mathematics in Computer Science*, 3(1):97–107, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=97.

**Tanaka:2010:PCC**

[82] Yuuki Tanaka and Yukio Shibata. On the pagenumber of the cube-connected cycles. *Mathematics in Computer Science*, 3(1):109–117, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=109.

**Tang:2010:NRE**

[83] Jianmin Tang, Yuqing Lin, and Mirka Miller. New results on EX graphs. *Mathematics in Computer Science*, 3 (1):119–126, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=119.

**Faugere:2010:F**

[84] Jean-Charles Faugère and Ludovic Perret. Foreword. *Mathematics in Computer Science*, 3(2):127–128, April 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=2&spage=127.

**Otmani:2010:CTM**

[85] Ayoub Otmani, Jean-Pierre Tillich, and Léonard Dallot. Cryptanalysis of two McEliece cryptosystems based on quasi-cyclic codes. *Mathematics in Computer Science*, 3(2):129–140, April 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=2&spage=129.

**Heuberger:2010:RAE**

[86] Clemens Heuberger. Redundant $\tau$-adic expansions II: Non-optimality and chaotic behaviour. *Mathematics in Computer Science*, 3(2):141–157, April 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=2&spage=141.

**Eibach:2010:OGB**

[87] Tobias Eibach, Gunnar Völkel, and Enrico Pilz. Optimising Gröbner bases on Bivium. *Mathematics in Computer Science*, 3(2):159–172, April 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=2&spage=159.

**Duquesne:2010:TGL**

[88] Sylvain Duquesne. Traces of the group law on the Kummer surface of a curve of genus 2 in characteristic 2. *Mathematics in Computer Science*, 3(2):173–183, April 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=2&spage=173.

**Bulygin:2010:OSS**

[89] Stanislav Bulygin and Michael Brickenstein. Obtaining and solving systems of equations in key variables only for the small variants of AES. *Mathematics in Computer Science*, 3(2):185–200, April 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=2&spage=185.

**Lee:2010:CGC**

[90] Moon Sung Lee and Sang Geun Hahn. Cryptanalysis of the GGH cryptosystem. *Mathematics in Computer Science*, 3(2):201–208, April 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=2&spage=201.

**Minzlaff:2010:CZF**

[91] Moritz Minzlaff. Computing zeta functions of superelliptic curves in larger characteristic. *Mathematics in Computer Science*, 3(2):209–224, April 2010.

CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=2&spage=209.

**Autexier:2010:FSI**

[92] Serge Autexier, Petr Sojka, and Masakazu Suzuki. Foreword to the special issue on authoring, digitalization and management of mathematical knowledge. *Mathematics in Computer Science*, 3(3):225–226, May 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=3&spage=225.

**Bouche:2010:DML**

[93] Thierry Bouche. Digital mathematics libraries: The good, the bad, the ugly. *Mathematics in Computer Science*, 3(3):227–241, May 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=3&spage=227.

**Macias-Virgos:2010:DPS**

[94] E. Macías-Virgós and R. de la Viesca. Digitization projects in Spain. *Mathematics in Computer Science*, 3 (3):243–250, May 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=3&spage=243.

**Mijajlovic:2010:DME**

[95] Zarko Mijajlovič, Zoran Ognjanovič, and Aleksandar Pejovič. Digitization of mathematical editions in Serbia. *Mathematics in Computer Science*, 3(3):251–263, May 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=3&spage=251.

**Zamlynska:2010:EMC**

[96] Katarzyna Zamlyńska, Alek Tarkowski, and Tomasz Rosiek. Evolution of the mathematical collection of the Polish Virtual Library of Science. *Mathematics in Computer Science*, 3(3):265–278, May 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=3&spage=265.

**Fujiyoshi:2010:GVM**

[97] Akio Fujiyoshi, Masakazu Suzuki, and Seiichi Uchida. Grammatical verification for mathematical formula recognition based on context-free tree grammar. *Mathematics in Computer Science*, 3(3):279–298, May 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=3&spage=279.

**Stamerjohanns:2010:TLC**

[98] Heinrich Stamerjohanns, Michael Kohlhase, Deyan Ginev, Catalin David, and Bruce Miller. Transforming large collections of scientific publications to

XML. *Mathematics in Computer Science*, 3(3):299–307, May 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=3&spage=299`.

**Aspinall:2010:THP**

[99] David Aspinall, Ewen Denney, and Christoph Lüth. Tactics for hierarchical proof. *Mathematics in Computer Science*, 3(3):309–330, May 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=3&spage=309`.

**Cohen:2010:MCI**

[100] A. M. Cohen, H. Cuypers, and R. Verrijzer. Mathematical context in interactive documents. *Mathematics in Computer Science*, 3(3):331–347, May 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=3&spage=331`.

**Heeren:2010:SRS**

[101] Bastiaan Heeren, Johan Jeuring, and Alex Gerdes. Specifying rewrite strategies for interactive exercises. *Mathematics in Computer Science*, 3(3):349–370, May 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=3&spage=349`.

**Christodoulakis:2010:F**

[102] Manolis Christodoulakis and Costas S. Iliopoulos. Foreword. *Mathematics in Computer Science*, 3(4):371, June 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=4&spage=371`.

**Puglisi:2010:FPA**

[103] Simon J. Puglisi, W. F. Smyth, and Munina Yusufu. Fast, practical algorithms for computing all the repeats in a string. *Mathematics in Computer Science*, 3(4):373–389, June 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=4&spage=373`.

**Cinque:2010:SCP**

[104] Luigi Cinque, Sergio De Agostino, and Luca Lombardi. Scalability and communication in parallel low-complexity lossless compression. *Mathematics in Computer Science*, 3(4):391–406, June 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=4&spage=391`.

**Kulekci:2010:BNB**

[105] M. Oguzhan Külekci. BLIM: a new bit-parallel pattern matching algorithm overcoming computer word size limitation. *Mathematics in Computer Science*, 3(4):407–420, June 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http:`

//www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=4&spage=407.

**Ghosh:2010:RAS**

[106] Subhas Kumar Ghosh and Janardan Misra. A randomized algorithm for 3-SAT. *Mathematics in Computer Science*, 3(4):421–431, June 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=4&spage=421.

**Hasan:2010:COA**

[107] Masud Hasan, Tanaeem M. Moosa, and M. Sohel Rahman. Cache oblivious algorithms for the RMQ and the RMSQ problems. *Mathematics in Computer Science*, 3(4):433–442, June 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=4&spage=433.

**Pu:2010:ASE**

[108] Ida M. Pu and Yuji Shen. Analytical studies of energy-time efficiency of blocking expanding ring search. *Mathematics in Computer Science*, 3(4):443–456, June 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=4&spage=443.

**Dimitrova:2010:EVC**

[109] Elena S. Dimitrova. Estimating the volumes of the cones in a Gröbner fan. *Mathematics in Computer Science*, 3(4):457–463, June 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=4&spage=457.

**Albrecht:2010:ALS**

[110] A. A. Albrecht, P. C. R. Lane, and K. Steinhöfel. Analysis of local search landscapes for $k$-SAT instances. *Mathematics in Computer Science*, 3(4):465–488, June 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=4&spage=465.

**Cooper:2010:SFP**

[111] Colin Cooper and Ryuhei Uehara. Scale free properties of random $k$-trees. *Mathematics in Computer Science*, 3(4):489–496, June 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=4&spage=489.

**Gonzalez-Vega:2010:F**

[112] Laureano Gonzalez-Vega and Sylvain Lazard. Foreword. *Mathematics in Computer Science*, 4(1):1–2, November 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=1&spage=1.

**DAndrea:2010:NPR**

[113] Carlos D'Andrea and Martín Sombra. The Newton polygon of a rational plane curve. *Mathematics in Computer Science*, 4(1):3–24, November 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=1&spage=3`.

**Emiris:2010:CNP**

[114] Ioannis Z. Emiris, Christos Konaxis, and Leonidas Palios. Computing the Newton polygon of the implicit equation. *Mathematics in Computer Science*, 4(1):25–44, November 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=1&spage=25`.

**Berberich:2010:APSa**

[115] Eric Berberich, Efi Fogel, Dan Halperin, Kurt Mehlhorn, and Ron Wein. Arrangements on parametric surfaces I: General framework and infrastructure. *Mathematics in Computer Science*, 4(1):45–66, November 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=1&spage=45`.

**Berberich:2010:APSb**

[116] Eric Berberich, Efi Fogel, Dan Halperin, Michael Kerber, and Ophir Setter. Arrangements on parametric surfaces II: Concretizations and applications. *Mathematics in Computer Science*, 4 (1):67–91, November 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=1&spage=67`.

**Lazard:2010:CTS**

[117] Daniel Lazard. CAD and topology of semi-algebraic sets. *Mathematics in Computer Science*, 4(1):93–112, November 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=1&spage=93`.

**Cheng:2010:TRA**

[118] Jinsan Cheng, Sylvain Lazard, Luis Peñaranda, Marc Pouget, Fabrice Rouillier, et al. On the topology of real algebraic plane curves. *Mathematics in Computer Science*, 4(1): 113–137, November 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=1&spage=113`.

**Regensburger:2010:F**

[119] Georg Regensburger, Markus Rosenkranz, and William Y. Sit. Foreword. *Mathematics in Computer Science*, 4(2–3):139–141, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=139`.

**Levin:2010:DPI**

[120] Alexander Levin. Dimension polynomials of intermediate fields and krull-type dimension of finitely generated differential field extensions. *Mathematics in Computer Science*, 4(2–3):143–150, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=143`.

**Morikawa:2010:DBE**

[121] Shuji Morikawa, Katsunori Saito, Taihei Takeuchi, and Hiroshi Umemura. Discrete Burgers' equation, binomial coefficients and mandala. *Mathematics in Computer Science*, 4(2–3):151–167, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=151`.

**Kasman:2010:FRP**

[122] Alex Kasman and Emma Previato. Factorization and resultants of partial differential operators. *Mathematics in Computer Science*, 4(2–3):169–184, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=169`.

**Boulier:2010:NFA**

[123] François Boulier and François Lemaire. A normal form algorithm for regular differential chains. *Mathematics in Computer Science*, 4(2–3):185–201, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=185`.

**Cheviakov:2010:SCL**

[124] Alexei F. Cheviakov. Symbolic computation of local symmetries of nonlinear and linear partial and ordinary differential equations. *Mathematics in Computer Science*, 4(2–3):203–222, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=203`.

**Shemyakova:2010:RTF**

[125] Ekaterina Shemyakova. Refinement of two-factor factorizations of a linear partial differential operator of arbitrary order and dimension. *Mathematics in Computer Science*, 4(2–3):223–230, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=223`.

**Plesken:2010:LDE**

[126] Wilhelm Plesken and Daniel Robertz. Linear differential elimination for analytic functions. *Mathematics in Computer Science*, 4(2–3):231–242, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=`

1661-8270&volume=4&issue=2&spage=231.

**Dimovski:2010:OCA**

[127] Ivan Dimovski and Margarita Spiridonova. Operational calculus approach to nonlocal Cauchy problems. *Mathematics in Computer Science*, 4(2–3):243–258, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=243.

**Koutschan:2010:FAC**

[128] Christoph Koutschan. A fast approach to creative telescoping. *Mathematics in Computer Science*, 4(2–3):259–266, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=259.

**Barkatou:2010:MMM**

[129] Moulay A. Barkatou, Gary Broughton, and Eckhard Pflügel. A monomial-by-monomial method for computing regular solutions of systems of pseudo-linear equations. *Mathematics in Computer Science*, 4(2–3):267–288, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=267.

**Boudellioua:2010:SRL**

[130] M. S. Boudellioua and A. Quadrat. Serre's reduction of linear functional systems. *Mathematics in Computer Science*, 4(2–3):289–312, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=289.

**Guo:2010:EGFa**

[131] Li Guo and William Y. Sit. Enumeration and generating functions of Rota–Baxter words. *Mathematics in Computer Science*, 4(2–3):313–337, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=313.

**Guo:2010:EGFb**

[132] Li Guo and William Y. Sit. Enumeration and generating functions of differential Rota–Baxter words. *Mathematics in Computer Science*, 4(2–3):339–358, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=339.

**Andres:2010:CMT**

[133] Daniel Andres, Michael Brickenstein, Viktor Levandovskyy, Jorge Martín-Morales, and Hans Schönemann. Constructive $D$-module theory with Singular. *Mathematics in Computer Science*, 4(2–3):359–383, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=359.

**Vegter:2010:F**

[134] Gert Vegter and Chee K. Yap. Foreword. *Mathematics in Computer Science*, 4(4):385–387, December 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=4&spage=385`.

**Gu:2010:FCC**

[135] David Xianfeng Gu, Feng Luo, and Shing-Tung Yau. Fundamentals of computational conformal geometry. *Mathematics in Computer Science*, 4(4):389–429, December 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=4&spage=389`.

**Boissonnat:2010:TSS**

[136] Jean-Daniel Boissonnat and Arijit Ghosh. Triangulating smooth submanifolds with light scaffolding. *Mathematics in Computer Science*, 4(4):431–461, December 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=4&spage=431`.

**Yang:2010:EBA**

[137] Huaiping Yang, Bert Jüttler, and Laureano Gonzalez-Vega. An evolution-based approach for approximate parameterization of implicitly defined curves by polynomial parametric spline curves. *Mathematics in Computer Science*, 4(4):463–479, December 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=4&spage=463`.

**Sagraloff:2010:GAI**

[138] Michael Sagraloff. A general approach to isolating roots of a bitstream polynomial. *Mathematics in Computer Science*, 4(4):481–506, December 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=4&spage=481`.

**Batra:2010:GCI**

[139] Prashant Batra. Globally convergent, iterative path-following for algebraic equations. *Mathematics in Computer Science*, 4(4):507–537, December 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=4&spage=507`.

**Morig:2010:DIG**

[140] Marc Mörig, Ivo Rössling, and Stefan Schirra. On design and implementation of a generic number type for real algebraic number computations based on expression dags. *Mathematics in Computer Science*, 4(4):539–556, December 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=4&spage=539`.

**Miller:2011:F**

[141] Mirka Miller, Bharati Rajan, and Joe Ryan. Foreword. *Mathematics in Com-*

*puter Science*, 5(1):1–2, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=1.

**Acharya:2011:SHP**

[142] B. D. Acharya. Supra-hereditary properties of hypergraphs. *Mathematics in Computer Science*, 5(1):3–6, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=3.

**Bommanahal:2011:PGC**

[143] Basavanagoud Bommanahal and Keerthi G. Mirajkar. On Plick graphs with coarseness number one. *Mathematics in Computer Science*, 5(1):7–10, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=7.

**Brankovic:2011:GLS**

[144] Ljiljana Brankovic and Ian M. Wanless. Graceful labelling: State of the art, applications and future directions. *Mathematics in Computer Science*, 5(1):11–20, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=11.

**Cada:2011:NDC**

[145] Roman Cada, Evelyne Flandrin, and Haiyan Kang. A note on degree conditions for traceability in locally claw-free graphs. *Mathematics in Computer Science*, 5(1):21–25, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=21.

**Chaudhuri:2011:ISS**

[146] Pranay Chaudhuri and Hussein Thompson. Improved self-stabilizing algorithms for $L(2,1)$-labeling tree networks. *Mathematics in Computer Science*, 5(1):27–39, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=27.

**Ichishima:2011:POR**

[147] Rikio Ichishima and Akito Oshima. On partitional and other related graphs. *Mathematics in Computer Science*, 5 (1):41–50, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=41.

**Jesintha:2011:AAF**

[148] J. Jeba Jesintha and G. Sethuraman. All arbitrarily fixed generalized banana trees are graceful. *Mathematics in Computer Science*, 5(1):51–62, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=51.

**Lopez:2011:SEM**

[149] S. C. López, F. A. Muntaner-Batle, and M. Rius-Font. Super edge-magic models. *Mathematics in Computer Science*, 5(1):63–68, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=63`.

**ONeal:2011:ICO**

[150] Allen O'Neal and Peter J. Slater. An introduction to closed/open neighborhood sums: Minimax, maximin, and spread. *Mathematics in Computer Science*, 5(1):69–80, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=69`.

**Phanalasy:2011:CAL**

[151] Oudone Phanalasy, Mirka Miller, Costas S. Iliopoulos, Solon P. Pissis, and Elaheh Vaezpour. Construction of antimagic labeling for the cartesian product of regular graphs. *Mathematics in Computer Science*, 5(1):81–87, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=81`.

**Rajan:2011:CRH**

[152] B. Rajan, K. T. Sonia, and M. Chris Monica. Conditional resolvability of honeycomb and hexagonal networks. *Mathematics in Computer Science*, 5(1):89–99, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=89`.

**Rajasingh:2011:LWF**

[153] Indra Rajasingh and Micheal Arockiaraj. Linear wirelength of folded hypercubes. *Mathematics in Computer Science*, 5(1):101–111, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=101`.

**Sugeng:2011:CVM**

[154] K. A. Sugeng and J. Ryan. Clique vertex magic cover of a graph. *Mathematics in Computer Science*, 5(1):113–118, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=113`.

**Nishat:2011:VDP**

[155] Rahnuma Islam Nishat, Debajyoti Mondal, and Md. Saidur Rahman. Visibility drawings of plane 3-trees with minimum area. *Mathematics in Computer Science*, 5(1):119–132, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=119`.

**Manin:2011:ECC**

[156] Yuri I. Manin and Matilde Marcolli. Error-correcting codes and phase tran-

sitions. *Mathematics in Computer Science*, 5(2):133–170, June 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=2&spage=133`.

**Klein:2011:HCN**

[157] Shmuel T. Klein and Dana Shapira. Huffman coding with non-sorted frequencies. *Mathematics in Computer Science*, 5(2):171–178, June 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=2&spage=171`.

**Faugere:2011:PER**

[158] Jean-Charles Faugère and Ye Liang. Pivoting in extended rings for computing approximate Gröbner bases. *Mathematics in Computer Science*, 5 (2):179–194, June 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=2&spage=179`.

**Zhu:2011:SSF**

[159] Mingfu Zhu, Guangran Jiang, and Shuhong Gao. Solving the 100 Swiss francs problem. *Mathematics in Computer Science*, 5(2):195–207, June 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=2&spage=195`.

**Gandy:2011:OPR**

[160] Silvia Gandy, Masaaki Kanno, Hirokazu Anai, and Kazuhiro Yokoyama. Optimizing a particular real root of a polynomial by a special cylindrical algebraic decomposition. *Mathematics in Computer Science*, 5(2):209–221, June 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=2&spage=209`.

**Juttler:2011:QCS**

[161] Bert Jüttler and Brian Moore. A quadratic clipping step with superquadratic convergence for bivariate polynomial systems. *Mathematics in Computer Science*, 5(2):223–235, June 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=2&spage=223`.

**Khattri:2011:OEO**

[162] Sanjay Kumar Khattri. Optimal eighth order iterative methods. *Mathematics in Computer Science*, 5(2):237–243, June 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=2&spage=237`.

**Anai:2011:F**

[163] Hirokazu Anai. Foreword. *Mathematics in Computer Science*, 5(3): 245–246, September 2011. CODEN ???? ISSN 1661-8270 (print),

1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=3&spage=245.

**Li:2011:SAD**

[164] Xiaoliang Li, Chenqi Mou, Wei Niu, and Dongming Wang. Stability analysis for discrete biological models using algebraic methods. *Mathematics in Computer Science*, 5(3):247–262, September 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=3&spage=247.

**Mabrouki:2011:EBR**

[165] Mbarka Mabrouki, Marc Aiguier, Jean-Paul Comet, Pascale Le Gall, and Adrien Richard. Embedding of biological regulatory networks and property preservation. *Mathematics in Computer Science*, 5(3):263–288, September 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=3&spage=263.

**Boulier:2011:MRC**

[166] François Boulier, Marc Lefranc, François Lemaire, and Pierre-Emmanuel Morant. Model reduction of chemical reaction systems using elimination. *Mathematics in Computer Science*, 5(3):289–301, September 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=3&spage=289.

**Ichihara:2011:SQA**

[167] Hiroyuki Ichihara and Hirokazu Anai. An SOS-QE approach to nonlinear gain analysis for polynomial dynamical systems. *Mathematics in Computer Science*, 5(3):303–314, September 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=3&spage=303.

**Iwane:2011:SNA**

[168] Hidenao Iwane, Hitoshi Yanami, and Hirokazu Anai. A symbolic-numeric approach to multi-objective optimization in manufacturing design. *Mathematics in Computer Science*, 5(3):315–334, September 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=3&spage=315.

**DosReis:2011:PCE**

[169] Gabriel Dos Reis and Bjarne Stroustrup. A principled, complete, and efficient representation of C++. *Mathematics in Computer Science*, 5(3):335–356, September 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=3&spage=335.

**Fainekos:2011:F**

[170] Georgios Fainekos, Eric Goubault, Sylvie Putot, and Stefan Ratschan. Foreword. *Mathematics in Computer Science*, 5(4):357–358, December 2011.

CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=4&spage=357.

**Graillat:2011:SAM**

[171] Stef Graillat, Fabienne Jézéquel, Shiyue Wang, and Yuxiang Zhu. Stochastic arithmetic in multiprecision. *Mathematics in Computer Science*, 5(4):359–375, December 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=4&spage=359.

**Boldo:2011:FVN**

[172] Sylvie Boldo and Claude Marché. Formal verification of numerical programs: From C annotated programs to mechanical proofs. *Mathematics in Computer Science*, 5(4):377–393, December 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=4&spage=377.

**Siegel:2011:TTA**

[173] Stephen F. Siegel and Timothy K. Zirkel. TASS: The Toolkit for Accurate Scientific Software. *Mathematics in Computer Science*, 5(4):395–426, December 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://vsl.cis.udel.edu/tass; http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=4&spage=395.

**Siegel:2011:FFE**

[174] Stephen F. Siegel and Timothy K. Zirkel. FEVS: a Functional Equivalence Verification Suite for high-performance scientific computing. *Mathematics in Computer Science*, 5(4):427–435, December 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=4&spage=427.

**Collins:2011:VRF**

[175] Pieter Collins, Milad Niqui, and Nathalie Revol. A validated real function calculus. *Mathematics in Computer Science*, 5(4):437–467, December 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=4&spage=437.

**Damm:2011:PPV**

[176] Werner Damm, Carsten Ihlemann, and Viorica Sofronie-Stokkermans. PTIME parametric verification of safety properties for reasonable linear hybrid automata. *Mathematics in Computer Science*, 5(4):469–497, December 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=4&spage=469.

**Hellmuth:2012:SHP**

[177] Marc Hellmuth, Lydia Ostermeier, and Peter F. Stadler. A survey on hypergraph products. *Mathematics in Computer Science*, 6(1):1–32, March 2012. CODEN ???? ISSN 1661-8270 (print),

1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=1&spage=1.

**Rana:2012:CCP**

[178] Akul Rana, Anita Pal, and Madhumangal Pal. The conditional covering problem on unweighted interval graphs with nonuniform coverage radius. *Mathematics in Computer Science*, 6(1):33–41, March 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=1&spage=33.

**Lundqvist:2012:MMI**

[179] Samuel Lundqvist. Multiplication matrices and ideals of projective dimension zero. *Mathematics in Computer Science*, 6(1):43–59, March 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=1&spage=43.

**Horn:2012:MFH**

[180] Peter Horn, Wolfram Koepf, and Torsten Sprenger. $m$-fold hypergeometric solutions of linear recurrence equations revisited. *Mathematics in Computer Science*, 6(1):61–77, March 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=1&spage=61.

**Nahay:2012:TOI**

[181] John Michael Nahay. The $n$ th order implicit differentiation formula for two variables with an application to computing all roots of a transcendental function. *Mathematics in Computer Science*, 6(1):79–105, March 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=1&spage=79.

**Kotsireas:2012:F**

[182] Ilias S. Kotsireas, Irene Márquez-Corbella, and Edgar Martínez-Moro. Foreword. *Mathematics in Computer Science*, 6(2):107–108, June 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=2&spage=107.

**Jurrius:2012:RBM**

[183] Relinde Jurrius. Relations between Möbius and coboundary polynomials. *Mathematics in Computer Science*, 6(2):109–120, June 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=2&spage=109.

**Jurrius:2012:TFI**

[184] Relinde Jurrius and Ruud Pellikaan. Truncation formulas for invariant polynomials of matroids and geometric lattices. *Mathematics in Computer Science*, 6(2):121–133, June 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=2&spage=121.

**Gordon:2012:BGD**

[185] Gary Gordon. On Brylawski's generalized duality. *Mathematics in Computer Science*, 6(2):135–146, June 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=2&spage=135`.

**Marquez-Corbella:2012:DMC**

[186] Irene Márquez-Corbella and Edgar Martínez-Moro. Decomposition of modular codes for computing test sets and Graver basis. *Mathematics in Computer Science*, 6(2):147–165, June 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=2&spage=147`.

**Romanczuk:2012:FGL**

[187] Urszula Romańczuk and Vasyl Ustimenko. On families of graphs of large cycle indicator, matrices of large order and key exchange protocols with nonlinear polynomial maps of small degree. *Mathematics in Computer Science*, 6(2):167–180, June 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=2&spage=167`.

**Klisowski:2012:CCP**

[188] Michal Klisowski and Vasyl Ustimenko. On the comparison of cryptographical properties of two different families of graphs with large cycle indicator. *Mathematics in Computer Science*, 6(2):181–198, June 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=2&spage=181`.

**Marcolli:2012:CFN**

[189] Matilde Marcolli and Christopher Perez. Codes as fractals and noncommutative spaces. *Mathematics in Computer Science*, 6(3):199–215, September 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=3&spage=199`.

**Orange:2012:EAS**

[190] Sébastien Orange, Guénaël Renault, and Kazuhiro Yokoyama. Efficient arithmetic in successive algebraic extension fields using symmetries. *Mathematics in Computer Science*, 6(3):217–233, September 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=3&spage=217`.

**Kohlhase:2012:SOM**

[191] Michael Kohlhase and Florian Rabe. Semantics of OpenMath and MathML 3. *Mathematics in Computer Science*, 6(3):235–260, September 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=3&spage=235`.

**Aurenhammer:2012:CCH**

[192] Franz Aurenhammer and Bert Jüttler. On computing the convex hull of (piecewise) curved objects. *Mathematics in Computer Science*, 6(3): 261–266, September 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=3&spage=261`.

**Li:2012:FSF**

[193] Hongbo Li, Rida T. Farouki, and Dingkang Wang. Foreword to the special focus on mathematics and algorithms for CAM and CNC. *Mathematics in Computer Science*, 6(3):267–268, September 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=3&spage=267`.

**Gasparetto:2012:TPR**

[194] Alessandro Gasparetto, Paolo Boscariol, Albano Lanzutti, and Renato Vidoni. Trajectory planning in robotics. *Mathematics in Computer Science*, 6 (3):269–279, September 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=3&spage=269`.

**Li:2012:PSS**

[195] Hongbo Li, Shoubin Yao, Ge Li, Yuanjie Liu, and Lixian Zhang. Power series solution for isoscallop tool path generation on free-form surface with ball-end cutter. *Mathematics in Computer Science*, 6(3):281–296, September 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=3&spage=281`.

**Radzevich:2012:DKB**

[196] Stephen P. Radzevich. The DG/K-based approach for synthesizing of CAM system for sculptured surface machining on multi-axis NC machine. *Mathematics in Computer Science*, 6 (3):297–313, September 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=3&spage=297`.

**Wang:2012:CBR**

[197] Yongqing Wang, Haibo Liu, and Sennan Yu. Curvature-based real-time NURBS surface interpolator with look-ahead ACC/DEC control. *Mathematics in Computer Science*, 6(3): 315–326, September 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=3&spage=315`.

**Li:2012:DIG**

[198] Hongbo Li, Xiaoshan Gao, Lixian Zhang, and Ruiyong Sun. Discrete interpolation of G01 codes in 2D machining under bounded accelerations. *Mathematics in Computer Science*, 6 (3):327–344, September 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://www.springerlink.com/openurl.`

asp?genre=article&issn=1661-8270&volume=6&issue=3&spage=327.

**Ratschan:2012:F**

[199] Stefan Ratschan and Thomas Sturm. Foreword. *Mathematics in Computer Science*, 6(4):345, December 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-012-0129-2; http://link.springer.com/content/pdf/10.1007/s11786-012-0129-2.pdf.

**Jaulin:2012:CIA**

[200] Luc Jaulin. Combining interval analysis with flatness theory for state estimation of sailboat robots. *Mathematics in Computer Science*, 6(4):347–359, December 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-012-0130-9.

**Huang:2012:RGS**

[201] Yanli Huang, L. X. Châu Ngô, and Franz Winkler. Rational general solutions of trivariate rational differential systems. *Mathematics in Computer Science*, 6(4):361–374, December 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-012-0131-8.

**Anashin:2012:NAT**

[202] Vladimir Anashin. The non-Archimedean theory of discrete systems. *Mathematics in Computer Science*, 6(4):375–393, December 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-012-0132-7.

**Liu:2012:ADR**

[203] Jiang Liu, Naijun Zhan, and Hengjun Zhao. Automatically discovering relaxed Lyapunov functions for polynomial dynamical systems. *Mathematics in Computer Science*, 6(4):395–408, December 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-012-0133-6.

**Fietzke:2012:SDP**

[204] Arnaud Fietzke and Christoph Weidenbach. Superposition as a decision procedure for timed automata. *Mathematics in Computer Science*, 6(4):409–425, December 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-012-0134-5.

**Kruglov:2012:SDF**

[205] Evgeny Kruglov and Christoph Weidenbach. Superposition decides the first-order logic fragment over ground theories. *Mathematics in Computer Science*, 6(4):427–456, December 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-012-0135-4.

**Maza:2012:SPP**

[206] Marc Moreno Maza, Bican Xia, and Rong Xiao. On solving parametric polynomial systems. *Mathematics in Computer Science*, 6(4):457–473, December 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-012-0136-3.

**Barbosa:2012:CGQ**

[207] L. S. Barbosa and Sun Meng. A calculus for generic, QoS-aware component composition. *Mathematics in Computer Science*, 6(4):475–497, December 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-012-0137-2`.

**Naimpally:2013:F**

[208] Som Naimpally, Jim Peters, and Marcin Wolski. Foreword. *Mathematics in Computer Science*, 7(1):1–2, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-013-0147-8; http://link.springer.com/content/pdf/10.1007/s11786-013-0147-8.pdf`.

**Peters:2013:NSI**

[209] James F. Peters. Near sets: An introduction. *Mathematics in Computer Science*, 7(1):3–9, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-013-0149-6; http://link.springer.com/content/pdf/10.1007/s11786-013-0149-6.pdf`.

**Ramanna:2013:FGA**

[210] Sheela Ramanna and Doungrat Chitcharoen. Flow graphs: Analysis with near sets. *Mathematics in Computer Science*, 7(1):11–29, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-013-0144-y`.

**DiConcilio:2013:PFG**

[211] A. Di Concilio. Point-free geometries: Proximities and quasi-metrics. *Mathematics in Computer Science*, 7(1):31–42, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-013-0140-2`.

**Fashandi:2013:NCU**

[212] Homa Fashandi. Nearness of covering uniformities: Theory and application in image analysis. *Mathematics in Computer Science*, 7(1):43–50, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-013-0142-0`.

**Henry:2013:MFN**

[213] Christopher J. Henry. Metric free nearness measure using description-based neighbourhoods. *Mathematics in Computer Science*, 7(1):51–69, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-013-0141-1`.

**Henry:2013:SBP**

[214] Christopher J. Henry and Sheela Ramanna. Signature-based perceptual nearness: Application of near sets to image retrieval. *Mathematics in Computer Science*, 7(1):71–85, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-013-0145-x`.

**Peters:2013:LNS**

[215] James F. Peters. Local near sets: Pattern discovery in proximity spaces. *Mathematics in Computer Science*, 7 (1):87–106, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-013-0143-z`.

**Tiwari:2013:UCV**

[216] Surabhi Tiwari. Ultrafilter completeness in $\varepsilon$-approach nearness spaces. *Mathematics in Computer Science*, 7(1): 107–111, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-013-0148-7`.

**Wang:2013:GKM**

[217] Lidong Wang, Xiaodong Liu, and Yashuang Mu. The global $k$-means clustering analysis based on multi-granulations nearness neighborhood. *Mathematics in Computer Science*, 7(1): 113–124, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-013-0150-0`.

**Wolski:2013:TFN**

[218] Marcin Wolski. Toward foundations of near sets: (pre-)sheaf theoretic approach. *Mathematics in Computer Science*, 7(1):125–136, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-013-0146-9; http://link.springer.com/content/pdf/10.1007/s11786-013-0146-9.pdf`.

**Conley:2013:IAB**

[219] Ehud S. Conley and Shmuel T. Klein. Improved alignment-based algorithm for multilingual text compression. *Mathematics in Computer Science*, 7(2):137–153, June 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-012-0138-1`.

**Cinque:2013:BIC**

[220] Luigi Cinque, Sergio De Agostino, and Luca Lombardi. Binary image compression via monochromatic pattern substitution: Sequential and Parallel implementations. *Mathematics in Computer Science*, 7(2):155–166, June 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-013-0153-x`.

**Perez-Diaz:2013:BFB**

[221] Sonia Pérez-Díaz and J. Rafael Sendra. Behavior of the fiber and the base points of parametrizations under projections. *Mathematics in Computer Science*, 7(2):167–184, June 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-013-0139-8`.

**Zhao:2013:DVC**

[222] Jun Zhao and Elizabeth Mansfield. Discrete variational calculus for B-spline curves. *Mathematics in Computer Science*, 7(2):185–199, June 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-013-0155-8`.

**Rosenkranz:2013:NAO**

[223] M. Rosenkranz and A. Korporal. A noncommutative algebraic operational calculus for boundary problems. *Mathematics in Computer Science*, 7(2):201–227, June 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-013-0154-9`.

**Li:2013:TPM**

[224] Hongbo Li and Lixian Zhang. Two proofs on Max–Min–Max principle of jerk control in time-optimal rectilinear motion. *Mathematics in Computer Science*, 7(2):229–236, June 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-012-0128-3`.

**Siddiqui:2013:FAL**

[225] Muhammad Kamran Siddiqui, Muhammad Numan, and Muhammad Awais Umar. Face antimagic labeling of Jahangir graph. *Mathematics in Computer Science*, 7(2):237–243, June 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-013-0151-z`.

**Baca:2013:SFA**

[226] Martin Baca, Muhammad Numan, and Muhammad Kamran Siddiqui. Super face antimagic labelings of union of antiprisms. *Mathematics in Computer Science*, 7(2):245–253, June 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-013-0152-y`.

**Hellmuth:2013:PSP**

[227] Marc Hellmuth, Wilfried Imrich, and Tomas Kupka. Partial star products: A local covering approach for the recognition of approximate Cartesian product graphs. *Mathematics in Computer Science*, 7(3):255–273, September 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-013-0156-7`.

**Fagerberg:2013:CRC**

[228] Rolf Fagerberg, Christoph Flamm, Daniel Merkle, Philipp Peters, and Peter F. Stadler. On the complexity of reconstructing chemical reaction networks. *Mathematics in Computer Science*, 7(3):275–292, September 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-013-0160-y`.

**Elden:2013:CSC**

[229] Lars Eldén, Magnus Merkel, Lars Ahrenberg, and Martin Fagerlund. Computing semantic clusters by semantic Mirroring and spectral graph partitioning. *Mathematics in Computer Science*, 7(3):293–313, September 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-013-0159-4`.

**Ali:2013:MLT**

[230] Kashif Ali, Muhammad Hussain, Ali Ahmad, and Mirka Miller. Magic labelings of type $(a, b, c)$ of families of wheels. *Mathematics in Computer Science*, 7(3):315–319, September 2013. CODEN ???? ISSN 1661-8270

(print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-013-0162-9.

**Semaev:2013:IAG**

[231] Igor Semaev. Improved agreeing–gluing algorithm. *Mathematics in Computer Science*, 7(3):321–339, September 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-013-0163-8.

**Saeid:2013:STF**

[232] Arsham Borumand Saeid, Akbar Rezaei, and Rajab Ali Borzooei. Some types of filters in BE-algebras. *Mathematics in Computer Science*, 7(3):341–352, September 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-013-0157-6.

**Akram:2013:IFS**

[233] Muhammad Akram, Bijan Davvaz, and Feng Feng. Intuitionistic fuzzy soft $K$-algebras. *Mathematics in Computer Science*, 7(3):353–365, September 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-013-0158-5.

**Akram:2013:IFL**

[234] Muhammad Akram, Saadia Shahzad, Arif Butt, and Abdul Khaliq. Intuitionistic fuzzy logic control for heater fans. *Mathematics in Computer Science*, 7(3):367–378, September 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-013-0161-x.

**Chen:2013:FSF**

[235] Xiaoyu Chen, Dongming Wang, and Xiangliang Zhang. Foreword to the special focus on mathematics, data and knowledge. *Mathematics in Computer Science*, 7(4):379–386, December 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/content/pdf/10.1007/s11786-013-0169-2.pdf.

**Abbass:2013:EAI**

[236] Mostafa M. Abbass and Hazem M. Bahig. An efficient algorithm to identify DNA motifs. *Mathematics in Computer Science*, 7(4):387–399, December 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-013-0165-6.

**Cruz:2013:SNC**

[237] Cristian Cruz, William Lima Leão, and David Rohde. The sensitivity of the number of clusters in a Gaussian mixture model to prior distributions. *Mathematics in Computer Science*, 7(4):401–420, December 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-013-0168-3.

**Aladova:2013:IMK**

[238] Elena Aladova, Eugene Plotkin, and Tatjana Plotkin. Isotypeness of models and knowledge bases equivalence. *Mathematics in Computer Science*, 7(4):421–438, December 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-013-0166-5.

**Chen:2013:FSG**

[239] Xiaoyu Chen and Dongming Wang. Formalization and specification of geometric knowledge objects. *Mathematics in Computer Science*, 7(4):439–454, December 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-013-0167-4.

**Zima:2013:AIS**

[240] Eugene V. Zima. Accelerating indefinite summation: Simple classes of summands. *Mathematics in Computer Science*, 7(4):455–472, December 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-013-0170-9.

**Roanes-Lozano:2013:GRG**

[241] Eugenio Roanes-Lozano. The geometry of railway geometric overthrow revisited using computer algebra methods. *Mathematics in Computer Science*, 7(4):473–485, December 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-013-0164-7.

**Baca:2013:TEI**

[242] Martin Baca, Marcela Lascsáková, and Muhammad Kamran Siddiqui. Total edge irregularity strength of toroidal fullerene. *Mathematics in Computer Science*, 7(4):487–492, December 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0172-2.

**Kerber:2014:F**

[243] Manfred Kerber, Christoph Lange, and Colin Rowat. Foreword. *Mathematics in Computer Science*, 8(1): 1–4, March 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/content/pdf/10.1007/s11786-014-0178-9.pdf.

**Chatterjee:2014:ARS**

[244] Siddharth Chatterjee and Arunava Sen. Automated reasoning in social choice theory: Some remarks. *Mathematics in Computer Science*, 8(1):5–10, March 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0177-x.

**James:2014:EFM**

[245] Phillip James and Markus Roggenbach. Encapsulating formal methods within domain specific languages: A solution for verifying railway scheme plans. *Mathematics in Computer Science*, 8(1):11–38, March 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0174-0.

**Khan-Afshar:2014:FAO**

[246] Sanaz Khan-Afshar, Umair Siddique, Mohamed Yousri Mahmoud, Vincent Aravantinos, Ons Seddiki, Osman Hasan, and Sofiène Tahar. Formal analysis of optical systems. *Mathematics in Computer Science*, 8(1):39–70, March 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0175-z.

**Mitsch:2014:CVD**

[247] Stefan Mitsch, Grant Olney Passmore, and André Platzer. Collaborative verification-driven engineering of hybrid systems. *Mathematics in Computer Science*, 8(1):71–97, March 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-014-0176-y`.

**Heras:2014:RPP**

[248] Jónathan Heras and Ekaterina Komendantskaya. Recycling proof patterns in Coq: Case studies. *Mathematics in Computer Science*, 8(1):99–116, March 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-014-0173-1`.

**DiRocco:2014:F**

[249] Sandra Di Rocco and Josef Schicho. Foreword. *Mathematics in Computer Science*, 8(2):117–118, June 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-014-0184-y.pdf`.

**Ren:2014:TCM**

[250] Qingchun Ren, Steven V. Sam, and Bernd Sturmfels. Tropicalization of classical moduli spaces. *Mathematics in Computer Science*, 8(2):119–145, June 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-014-0185-x`.

**Bremner:2014:HPF**

[251] Murray Bremner, Jiaxiong Hu, and Luke Oeding. The $3 \times 3 \times 3$ hyperdeterminant as a polynomial in the fundamental invariants for $\mathrm{SL}_3(\mathbf{C}) \times \mathrm{SL}_3(\mathbf{C}) \times \mathrm{SL}_3(\mathbf{C})$. *Mathematics in Computer Science*, 8(2):147–156, June 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-014-0186-9`.

**Mourrain:2014:BDT**

[252] Bernard Mourrain and Nelly Villamizar. Bounds on the dimension of trivariate spline spaces: A homological approach. *Mathematics in Computer Science*, 8(2):157–174, June 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-014-0187-8`.

**Buse:2014:DSH**

[253] Laurent Busé and Jean-Pierre Jouanolou. On the discriminant scheme of homogeneous polynomials. *Mathematics in Computer Science*, 8(2):175–234, June 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-014-0188-7`.

**Hauenstein:2014:NPW**

[254] Jonathan D. Hauenstein and Frank Sottile. Newton polytopes and witness sets. *Mathematics in Computer Science*, 8(2):235–251, June 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-014-0189-6`.

**Bates:2014:UMA**

[255] Daniel J. Bates and Matthew Niemerg. Using monodromy to avoid high preci-

sion in homotopy continuation. *Mathematics in Computer Science*, 8(2): 253–262, June 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0190-0.

**Wilson:2014:CAS**

[256] D. J. Wilson, R. J. Bradford, J. H. Davenport, and M. England. Cylindrical algebraic sub-decompositions. *Mathematics in Computer Science*, 8 (2):263–288, June 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/content/pdf/10.1007/s11786-014-0191-z.pdf.

**ElKahoui:2014:ACA**

[257] M'hammed El Kahoui and Zakari Yaou Moussa. An algorithm to compute the adjoint ideal of an affine plane algebraic curve. *Mathematics in Computer Science*, 8(2):289–298, June 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0193-x.

**Bastl:2014:PRR**

[258] Bohumír Bastl, Bert Jüttler, Miroslav Lávicka, Tino Schulz, and Zbynek Sír. On the parameterization of rational ringed surfaces and rational canal surfaces. *Mathematics in Computer Science*, 8(2):299–319, June 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0192-y.

**Ramdani:2014:F**

[259] Nacim Ramdani and Luc Jaulin. Foreword. *Mathematics in Computer Science*, 8(3–4):321, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/content/pdf/10.1007/s11786-014-0211-z.pdf.

**Rohn:2014:VLD**

[260] Jiri Rohn. Verification of linear (in)dependence in finite precision arithmetic. *Mathematics in Computer Science*, 8(3–4):323–328, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0196-7.

**Hladik:2014:ESC**

[261] Milan Hladík and Stefan Ratschan. Efficient solution of a class of quantified constraints with quantifier prefix exists–forall. *Mathematics in Computer Science*, 8(3–4):329–340, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0195-8.

**Just:2014:SSB**

[262] Elke Just. Subdivision strategies for boxes in branch-and-bound nonlinear solvers and verification. *Mathematics in Computer Science*, 8(3–4):341–355, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0207-8.

**Patil:2014:IBG**

[263] Bhagyesh V. Patil and P. S. V. Nataraj. An improved Bernstein global optimization algorithm for MINLP problems with application in process industry. *Mathematics in Computer Science*, 8(3–4):357–377, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-014-0198-5`.

**Aubry:2014:KCI**

[264] Clément Aubry, Rozenn Desmare, and Luc Jaulin. Kernel characterization of an interval function. *Mathematics in Computer Science*, 8(3–4):379–390, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-014-0206-9`.

**Ravanbod:2014:DSM**

[265] Laleh Ravanbod, Nathalie Verdière, and Carine Jauberthie. Determination of set–membership identifiability sets. *Mathematics in Computer Science*, 8(3–4):391–406, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-014-0201-1`.

**Maiga:2014:CVZ**

[266] Moussa Maïga, Nacim Ramdani, Louise Travé-Massuyès, and Christophe Combastel. A CSP versus a zonotope-based method for solving guard set intersection in nonlinear hybrid reachability. *Mathematics in Computer Science*, 8(3–4):407–423, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-014-0204-y`.

**Rego:2014:DIO**

[267] Francisco Rego, Elwin de Weerdt, Eddy van Oort, Erik-Jan van Kampen, Qiping Chu, and António M. Pascoal. Determination of inner and outer bounds of reachable sets through subpavings. *Mathematics in Computer Science*, 8(3–4):425–442, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-014-0199-4`.

**Kumkov:2014:LSV**

[268] Sergey S. Kumkov, Stéphane Le Ménec, and Valerii S. Patsko. Level sets of the value function in differential games with two pursuers and one evader. interval analysis interpretation. *Mathematics in Computer Science*, 8(3–4):443–454, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-014-0203-z`.

**Chhade:2014:NPD**

[269] Hiba Haj Chhadé, Amadou Gning, Fahed Abdallah, Imad Mougharbel, and Simon Julier. Non parametric distributed inference in sensor networks using box particles messages. *Mathematics in Computer Science*, 8(3–4):455–478, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-014-0200-2.pdf`.

**Sandretto:2014:IMM**

[270] Julien Alexandre Dit Sandretto, Gilles Trombettoni, and David Daney. Interval methods for model qualification: Methodology and advanced application. *Mathematics in Computer Science*, 8(3–4):479–493, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0210-0.

**Seddik:2014:PBL**

[271] Mohamed Saad Ibn Seddik, Luc Jaulin, and Jonathan Grimsdale. Phase based localization for underwater vehicles using interval analysis. *Mathematics in Computer Science*, 8(3–4):495–502, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0197-6.

**Bethencourt:2014:SNL**

[272] Aymeric Bethencourt and Luc Jaulin. Solving non-linear constraint satisfaction problems involving time-dependent functions. *Mathematics in Computer Science*, 8(3–4):503–523, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0209-6.

**Rauh:2014:IMR**

[273] Andreas Rauh, Luise Senkel, Ekaterina Auer, and Harald Aschemann. Interval methods for real-time capable robust control of solid oxide fuel cell systems. *Mathematics in Computer Science*, 8(3–4):525–542, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0205-x.

**Senkel:2014:SMT**

[274] Luise Senkel, Andreas Rauh, and Harald Aschemann. Sliding mode techniques for robust trajectory tracking as well as state and parameter estimation. *Mathematics in Computer Science*, 8(3–4):543–561, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0208-7.

**Drevelle:2014:VVI**

[275] Vincent Drevelle and Jeremy Nicola. VIBes: A visualizer for intervals and boxes. *Mathematics in Computer Science*, 8(3–4):563–572, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0202-0.

**Thery:2015:FSF**

[276] Laurent Théry and Freek Wiedijk. Foreword to the special focus on formal proofs for mathematics and computer science. *Mathematics in Computer Science*, 9(1):1–3, March 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/content/pdf/10.1007/s11786-014-0214-9.pdf.

**Kaliszyk:2015:HHO**

[277] Cezary Kaliszyk and Josef Urban. HOL(y)Hammer: Online ATP service for HOL light. *Mathematics in Computer Science*, 9(1):5–22, March 2015. CODEN ???? ISSN 1661-8270 (print),

1661-8289 (electronic). URL http://link.springer.com/content/pdf/10.1007/s11786-014-0182-0.pdf.

**Noschinski:2015:GLI**

[278] Lars Noschinski. A graph library for Isabelle. *Mathematics in Computer Science*, 9(1):23–39, March 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0183-z.

**Boldo:2015:CUF**

[279] Sylvie Boldo, Catherine Lelay, and Guillaume Melquiond. Coquelicot: A user-friendly library of real analysis for Coq. *Mathematics in Computer Science*, 9(1):41–62, March 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0181-1.

**Marcolli:2015:QCR**

[280] Matilde Marcolli and John Napp. Quantum computation and real multiplication. *Mathematics in Computer Science*, 9(1):63–84, March 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0179-8.

**Talwar:2015:SSA**

[281] Jyoti Talwar and Ranjan Kumar Mohanty. A single sweep AGE algorithm based on off-step discretization for the solution of viscous Burgers' equation on a variable mesh. *Mathematics in Computer Science*, 9(1):85–103, March 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0194-9.

**Daykin:2015:AGC**

[282] Jacqueline W. Daykin, Costas S. Iliopoulos, Mirka Miller, and Oudone Phanalasy. Antimagicness of generalized corona and snowflake graphs. *Mathematics in Computer Science*, 9(1):105–111, March 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0213-x.

**Paul:2015:LPB**

[283] Satyabrata Paul, Madhumangal Pal, and Anita Pal. $L(2,1)$-labeling of permutation and bipartite permutation graphs. *Mathematics in Computer Science*, 9(1):113–123, March 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0180-2.

**Miller:2015:F**

[284] Mirka Miller, Bharati Rajan, and Indra Rajasingh. Foreword. *Mathematics in Computer Science*, 9(2):125–126, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0235-z; http://link.springer.com/content/pdf/10.1007/s11786-015-0235-z.pdf.

**Abawajy:2015:DCS**

[285] J. Abawajy, A. V. Kelarev, M. Miller, and J. Ryan. Distances of centroid sets in a graph-based construction for information security applications. *Mathematics in Computer*

*Science*, 9(2):127–137, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0217-1.

**Baca:2015:ALJ**

[286] Martin Baca, Oudone Phanalasy, and Joe Ryan. Antimagic labelings of join graphs. *Mathematics in Computer Science*, 9(2):139–143, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0218-0.

**Conde:2015:NAM**

[287] Josep Conde, Mirka Miller, Josep M. Miret, and Kumar Saurav. On the nonexistence of almost Moore digraphs of degree four and five. *Mathematics in Computer Science*, 9(2):145–149, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0219-z.

**Rajasingh:2015:TVI**

[288] Indra Rajasingh and V. Annamma. Total vertex irregularity strength of 1-fault tolerant Hamiltonian graphs. *Mathematics in Computer Science*, 9(2):151–160, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0220-6.

**Indriati:2015:TEI**

[289] Diari Indriati, Widodo, and Indah E. Wijayanti. On total edge irregularity strength of generalized Web graphs and related graphs. *Mathematics in Computer Science*, 9(2):161–167, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0221-5.

**Quadras:2015:DPC**

[290] Jasintha Quadras and Sajiya Merlin Mahizl Albert. Domination parameters in coronene torus network. *Mathematics in Computer Science*, 9(2):169–175, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0222-4.

**Quadras:2015:EFH**

[291] Jasintha Quadras and Sarah Surya Solomon. Embedding of the folded hypercubes into tori. *Mathematics in Computer Science*, 9(2):177–183, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0223-3.

**Jesintha:2015:AUB**

[292] J. Jeba Jesintha and K. Ezhilarasi Hilda. All uniform bow graphs are graceful. *Mathematics in Computer Science*, 9(2):185–191, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0224-2.

**Punitha:2015:SKN**

[293] M. Joice Punitha. Strong kernel number in certain oriented cycle extension of graphs. *Mathematics in Computer Science*, 9(2):193–199, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL

http://link.springer.com/article/10.1007/s11786-015-0225-1.

**Manuel:2015:SMD**

[294] Paul Manuel, Bharati Rajan, and Cyriac Grigorious. On the strong metric dimension of tetrahedral diamond lattice. *Mathematics in Computer Science*, 9(2):201–208, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0226-0.

**Manuel:2015:BFC**

[295] Paul Manuel and A. S. Shanthi. Berge–Fulkerson conjecture on certain snarks. *Mathematics in Computer Science*, 9(2):209–220, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0227-z.

**Rajasingh:2015:LLD**

[296] Indra Rajasingh, Micheal Arockiaraj, and Jasintha Quadras. Linear layout of directed grid graph. *Mathematics in Computer Science*, 9(2):221–227, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0228-y.

**Ramdani:2015:TIS**

[297] Rismawati Ramdani, A. N. M. Salman, and Hilda Assiyatun. Total irregularity strength of three families of graphs. *Mathematics in Computer Science*, 9(2):229–237, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0229-x.

**Pushpam:2015:SRD**

[298] P. Roushini Leely Pushpam and Chitra Suseendran. Secure restrained domination in graphs. *Mathematics in Computer Science*, 9(2):239–247, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0230-4.

**Sethuraman:2015:CPT**

[299] G. Sethuraman, A. Velankanni, and S. Anbarasu. Cycle partition of two-connected and two-edge connected graphs. *Mathematics in Computer Science*, 9(2):249–252, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0231-3.

**Rajan:2015:ERC**

[300] R. Sundara Rajan, N. Parthiban, and T. M. Rajalaxmi. Embedding of recursive circulants into certain necklace graphs. *Mathematics in Computer Science*, 9(2):253–263, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0232-2.

**Fontaine:2015:FSF**

[301] Pascal Fontaine, Thomas Sturm, and Uwe Waldmann. Foreword to the special focus on constraints and combinations. *Mathematics in Computer Science*, 9(3):265, October 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/content/pdf/10.1007/s11786-015-0239-8.pdf.

**Fukasaku:2015:QAA**

[302] Ryoya Fukasaku, Shutaro Inoue, and Yosuke Sato. On QE algorithms over an algebraically closed field based on comprehensive Gröbner systems. *Mathematics in Computer Science*, 9(3):267–281, October 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0237-x.

**Hagemann:2015:EGO**

[303] Willem Hagemann. Efficient geometric operations on convex polyhedra, with an application to reachability analysis of hybrid systems. *Mathematics in Computer Science*, 9(3):283–325, October 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0238-9.

**Suda:2015:VCE**

[304] Martin Suda. Variable and clause elimination for LTL satisfiability checking. *Mathematics in Computer Science*, 9(3):327–344, October 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0240-2.

**Wintraecken:2015:OTC**

[305] M. H. M. J. Wintraecken and G. Vegter. On the optimal triangulation of convex hypersurfaces, whose vertices lie in ambient space. *Mathematics in Computer Science*, 9(3):345–353, October 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0216-7.

**Panayotopoulos:2015:PMC**

[306] A. Panayotopoulos and P. Vlamos. Partitioning the meandering curves. *Mathematics in Computer Science*, 9(3):355–364, October 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0234-0.

**Koepf:2015:AAF**

[307] Wolfram Koepf and Etienne Nana Chiadjeu. Algorithmic approach for formal Fourier series. *Mathematics in Computer Science*, 9(3):365–389, October 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-014-0215-8.

**Marcolli:2015:GGI**

[308] Matilde Marcolli and Alexander Port. Graph grammars, insertion Lie algebras, and quantum field theory. *Mathematics in Computer Science*, 9(4):391–408, December 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0236-y.

**Stadler:2015:CS**

[309] Bärbel M. R. Stadler and Peter F. Stadler. Connectivity spaces. *Mathematics in Computer Science*, 9(4):409–436, December 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-015-0241-1.

**Berkemer:2015:SCR**

[310] Sarah J. Berkemer, Ricardo R. C. Chaves, and Adrian Fritz. Spiders can be recognized by counting their legs. *Mathematics in Computer Science*, 9(4):437–441, December 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-015-0233-1`.

**Muhshi:2015:MSR**

[311] Hadi Muhshi and Edy Tri Baskoro. Matching-star Ramsey minimal graphs. *Mathematics in Computer Science*, 9 (4):443–452, December 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-015-0244-y`.

**Man:2015:CMA**

[312] Yiu-Kwong Man. On computing the measurable amounts of the two jugs problem. *Mathematics in Computer Science*, 9(4):453–459, December 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-015-0242-0`.

**Kumar:2015:LBC**

[313] Sandeep Ameet Kumar, Jito Vanualailai, and Bibhya Sharma. Lyapunov-based control for a swarm of planar nonholonomic vehicles. *Mathematics in Computer Science*, 9(4):461–475, December 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-015-0243-z`.

**Sendra:2016:F**

[314] J. Rafael Sendra, Dongming Wang, and Jing Yang. Foreword. *Mathematics in Computer Science*, 10(1): 1–3, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-016-0263-3.pdf`.

**Botana:2016:UUT**

[315] Francisco Botana and Tomas Recio. On the unavoidable uncertainty of truth in dynamic geometry proving. *Mathematics in Computer Science*, 10(1):5–25, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-016-0246-4`.

**Schreck:2016:CCT**

[316] Pascal Schreck, Vesna Marinković, and Predrag Janičić. Constructibility classes for triangle location problems. *Mathematics in Computer Science*, 10(1):27–39, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-016-0255-3`.

**Schreck:2016:ACC**

[317] Pascal Schreck and Pascal Mathis. Automatic constructibility checking of a corpus of geometric construction problems. *Mathematics in Computer Science*, 10(1):41–56, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-016-0247-3`.

**Narboux:2016:TCV**

[318] Julien Narboux and David Braun. Towards a certified version of the encyclopedia of triangle centers. *Mathematics in Computer Science*, 10(1):57–73, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-016-0254-4`.

**Shao:2016:CTP**

[319] Changpeng Shao, Hongbo Li, and Lei Huang. Challenging theorem provers with mathematical Olympiad problems in solid geometry. *Mathematics in Computer Science*, 10(1):75–96, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-016-0256-2`.

**Dorst:2016:CCM**

[320] Leo Dorst. The construction of 3D conformal motions. *Mathematics in Computer Science*, 10(1):97–113, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-016-0250-8.pdf`.

**Bowers:2016:GUM**

[321] John C. Bowers and Ileana Streinu. Geodesic universal molecules. *Mathematics in Computer Science*, 10(1):115–141, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-016-0253-5`.

**Lichtblau:2016:FOP**

[322] Daniel Lichtblau. First order perturbation and local stability of parametrized systems. *Mathematics in Computer Science*, 10(1):143–163, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-016-0249-1`.

**Brunat:2016:CCR**

[323] Josep M. Brunat and Antonio Montes. Computing the canonical representation of constructible sets. *Mathematics in Computer Science*, 10(1):165–178, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-016-0248-2`.

**Ricca:2016:DCS**

[324] Giorgio Ricca, Mauro C. Beltrametti, and Anna Maria Massone. Detecting curves of symmetry in images via Hough transform. *Mathematics in Computer Science*, 10(1):179–205, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-016-0245-5`.

**Rajan:2016:FSF**

[325] Bharati Rajan, Ibrahim Venkat, and K. G. Subramanian. Foreword to the special focus on graph theory and applications. *Mathematics in Computer Science*, 10(2):207–208, June 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-016-0272-2.pdf`.

**Bera:2016:SPW**

[326] Somnath Bera and Kalpana Mahalingam. Structural properties of word representable graphs. *Mathematics in Computer Science*, 10(2):209–222, June 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-016-0257-1.

**Wong:2016:CBC**

[327] Denis C. K. Wong. Constructions of binary codes based on bipartite graphs. *Mathematics in Computer Science*, 10(2):223–227, June 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-016-0258-0.

**Nagar:2016:ECI**

[328] Atulya K. Nagar and S. Sriram. On eccentric connectivity index of eccentric graph of regular dendrimer. *Mathematics in Computer Science*, 10(2): 229–237, June 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-016-0259-z.

**Sivagami:2016:CCN**

[329] P. Sivagami and Indra Rajasingh. $T$-coloring of certain networks. *Mathematics in Computer Science*, 10(2): 239–248, June 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-016-0260-6.

**Mahmood:2016:MCE**

[330] Ali Abdulkareem Mahmood, Ali Maroosi, and Ravie Chandren Muniyandi. Membrane computing to enhance time efficiency of minimum dominating set. *Mathematics in Computer Science*, 10(2):249–261, June 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-016-0261-5.

**Sivaselvan:2016:IMQ**

[331] K. Sivaselvan and C. Vijayalakshmi. Implementation of Markovian queueing network model with multiple closed chains. *Mathematics in Computer Science*, 10(2):263–272, June 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-016-0262-4.

**Dochviri:2016:TSF**

[332] Irakli Dochviri and James F. Peters. Topological sorting of finitely near sets. *Mathematics in Computer Science*, 10(2):273–277, June 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-016-0273-1.

**Gavina:2016:IAC**

[333] Alexandra Gavina, José Matos, and Paulo Vasconcelos. Improving the accuracy of Chebyshev Tau method for nonlinear differential problems. *Mathematics in Computer Science*, 10(2): 279–289, June 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.

com/article/10.1007/s11786-016-0265-1.

**Conceicao:2016:ESS**

[334] Ana C. Conceição and José C. Pereira. Exploring the spectra of some classes of singular integral operators with symbolic computation. *Mathematics in Computer Science*, 10(2):291–309, June 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-016-0264-2.

**Loja:2016:FSF**

[335] Amélia Loja, José Alberto Rodrigues, and Ana C. Conceição. Foreword to the special focus on advances in symbolic and numeric computation. *Mathematics in Computer Science*, 10(3):311–312, September 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/content/pdf/10.1007/s11786-016-0270-4.pdf.

**Trindade:2016:TLM**

[336] M. Trindade, J. Matos, and P. B. Vasconcelos. Towards a Lanczos' $\tau$-method toolkit for differential problems. *Mathematics in Computer Science*, 10(3):313–329, September 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-016-0269-x.

**Rachah:2016:DOC**

[337] Amira Rachah and Delfim F. M. Torres. Dynamics and optimal control of Ebola transmission. *Mathematics in Computer Science*, 10(3):331–342, September 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-016-0268-y.

**Maia:2016:TDC**

[338] Rúben Maia, Ricardo Branco, F. V. Antunes, M. C. Oliveira, and Andrei Kotousov. Three-dimensional computational analysis of stress state transition in through-cracked plates. *Mathematics in Computer Science*, 10(3):343–352, September 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-016-0267-z.

**Escobar:2016:CLA**

[339] J. M. Escobar, J. Núñez, and P. Pérez-Fernández. On contractions of Lie algebras. *Mathematics in Computer Science*, 10(3):353–364, September 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-016-0266-0.

**Conceicao:2016:SCA**

[340] Ana C. Conceição, Rui C. Marreiros, and José C. Pereira. Symbolic computation applied to the study of the kernel of a singular integral operator with non–Carleman shift and conjugation. *Mathematics in Computer Science*, 10(3):365–386, September 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/article/10.1007/s11786-016-0271-3.

**Akram:2016:PFL**

[341] Muhammad Akram and Arooj Adeel. $\vec{m}$-polar fuzzy labeling graphs with

application. *Mathematics in Computer Science*, 10(3):387–402, September 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-016-0277-x`.

**Hammack:2016:ANA**

[342] Richard H. Hammack, Marc Hellmuth, Lydia Ostermeier, and Peter F. Stadler. Associativity and non-associativity of some hypergraph products. *Mathematics in Computer Science*, 10(3):403–408, September 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-016-0276-y`.

**Guidi:2016:SRM**

[343] Ferruccio Guidi and Claudio Sacerdoti Coen. A survey on retrieval of mathematical knowledge. *Mathematics in Computer Science*, 10(4):409–427, December 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-016-0274-0`.

**Raggi:2016:ACR**

[344] Daniel Raggi, Alan Bundy, Gudmund Grov, and Alison Pease. Automating change of representation for proofs in discrete mathematics (extended version). *Mathematics in Computer Science*, 10(4):429–457, December 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-016-0275-z.pdf`.

**Manin:2016:SS**

[345] Yuri I. Manin and Matilde Marcolli. Semantic spaces. *Mathematics in Computer Science*, 10(4):459–477, December 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-016-0278-9`.

**Wang:2016:CBR**

[346] Dongming Wang. On the connection between ritt characteristic sets and Buchberger–Gröbner bases. *Mathematics in Computer Science*, 10(4):479–492, December 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-016-0279-8`.

**Kotsireas:2017:MCS**

[347] Ilias S. Kotsireas. Mathematics in computer science: After 10 years. *Mathematics in Computer Science*, 11(1):1–6, March 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-017-0312-6.pdf`.

**Chen:2017:AOR**

[348] Yuqun Chen, Haibin Wu, and Honglian Xie. Automaticity of one–relator semigroups with length less than or equal to three. *Mathematics in Computer Science*, 11(1):7–33, March 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-017-0291-7`.

**Emiris:2017:AMS**

[349] Ioannis Z. Emiris, Anna Karasoulou, and Charilaos Tzovas. Approximating multidimensional subset sum and Minkowski decomposition of polygons. *Mathematics in Computer Science*, 11(1):35–48, March 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-017-0297-1`.

**Galan-Garcia:2017:GAA**

[350] José Luis Galán-García, Salvador Merino, Javier Martínez, and Miguel De Aguilera. Genetic and algebraic algorithms for classifying the items of a Likert questionnaire. *Mathematics in Computer Science*, 11(1):49–59, March 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-017-0289-1`.

**Hashemi:2017:GSC**

[351] Amir Hashemi, Mahdi Dehghani Darmian, and Marzieh Barkhordar. Gröbner systems conversion. *Mathematics in Computer Science*, 11(1):61–77, March 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-017-0295-3`.

**Shu:2017:SSC**

[352] Kevin Shu and Matilde Marcolli. Syntactic structures and code parameters. *Mathematics in Computer Science*, 11(1):79–90, March 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-017-0298-0`.

**Yang:2017:STR**

[353] Fan Yang, Xiao-Xiao Li, Dun-Gang Li, and Lan Wang. The simplified Tikhonov regularization method for solving a Riesz–Feller space–fractional backward diffusion problem. *Mathematics in Computer Science*, 11(1):91–110, March 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/article/10.1007/s11786-017-0292-6`.

**Iliopoulos:2017:F**

[354] Costas S. Iliopoulos and Alessio Langiu. Foreword. *Mathematics in Computer Science*, 11(2):111–112, June 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-017-0323-3.pdf`.

**BenNsira:2017:LSM**

[355] Nadia Ben Nsira, Mourad Elloumi, and Thierry Lecroq. On-line string matching in highly similar DNA sequences. *Mathematics in Computer Science*, 11(2):113–126, June 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Kim:2017:RTO**

[356] Jinil Kim, Amihood Amir, Joong Chae Na, Kunsoo Park, and Jeong Seop Sim. On representations of ternary order relations in numeric strings. *Mathematics in Computer Science*, 11(2):127–136, June 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Karkkainen:2017:ELE**

[357] Juha Kärkkäinen and Dominik Kempa. Engineering a lightweight external memory suffix array construction algorithm. *Mathematics in Computer Science*, 11 (2):137–149, June 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Gagie:2017:CSS**

[358] Travis Gagie, Giovanni Manzini, and Daniel Valenzuela. Compressed spaced suffix arrays. *Mathematics in Computer Science*, 11(2):151–157, June 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Tischler:2017:FAC**

[359] German Tischler. Faster average case low memory semi-external construction of the Burrows–Wheeler transform. *Mathematics in Computer Science*, 11(2):159–176, June 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-017-0296-2.pdf`.

**Davoodi:2017:SRB**

[360] Pooya Davoodi, Rajeev Raman, and Srinivasa Rao Satti. On succinct representations of binary trees. *Mathematics in Computer Science*, 11(2):177–189, June 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Gagie:2017:BGP**

[361] Travis Gagie, Christopher Hoobin, and Simon J. Puglisi. Block graphs in practice. *Mathematics in Computer Science*, 11(2):191–196, June 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Vlachakis:2017:APA**

[362] Dimitrios Vlachakis, Alexandros Armaos, and Sophia Kossida. Advanced protein alignments based on sequence, structure and hydropathy profiles; the paradigm of the viral polymerase enzyme. *Mathematics in Computer Science*, 11(2):197–208, June 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Daykin:2017:ISF**

[363] Jacqueline W. Daykin and Bruce Watson. Indeterminate string factorizations and degenerate text transformations. *Mathematics in Computer Science*, 11(2):209–218, June 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-016-0285-x.pdf`.

**Hasan:2017:PSA**

[364] Md. Mahbubul Hasan, A. S. M. Sohidull Islam, M. Sohel Rahman, and Ayon Sen. Palindromic subsequence automata and longest common palindromic subsequence. *Mathematics in Computer Science*, 11(2):219–232, June 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Ferdous:2017:SMC**

[365] S. M. Ferdous and M. Sohel Rahman. Solving the minimum common string partition problem with the help of ants. *Mathematics in Computer Science*, 11 (2):233–249, June 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Dana-Picard:2017:F**

[366] Thierry Dana-Picard, Wolfram Koepf, Ilias Kotsireas, Zoltán Kovács, Alexander Prokopenya, and Werner Seiler. Foreword. *Mathematics in Computer Science*, 11(3–4):251–252, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-017-0324-2.pdf`.

**Bavula:2017:QGW**

[367] V. V. Bavula. Quiver generalized Weyl algebras, skew category algebras and diskew polynomial rings. *Mathematics in Computer Science*, 11(3–4):253–268, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-017-0313-5.pdf`.

**Hussein:2017:GII**

[368] Wuria Muhammad Ameen Hussein and Colin Christopher. A geometric investigation of the invariant algebraic curves in two dimensional Lotka–Volterra systems. *Mathematics in Computer Science*, 11(3–4):269–283, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Dana-Picard:2017:FIB**

[369] Thierry Dana-Picard and David G. Zeitoun. A framework for an ICT–Based study of parametric integrals. *Mathematics in Computer Science*, 11(3–4):285–296, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Davenport:2017:WDL**

[370] James H. Davenport. What does "without loss of generality" mean, and how do we detect it. *Mathematics in Computer Science*, 11(3–4):297–303, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-017-0316-2.pdf`.

**Durcheva:2017:ACT**

[371] Mariana Durcheva and Elena Varbanova. Applications of CAS in the teaching and learning of discrete mathematics. *Mathematics in Computer Science*, 11(3–4):305–314, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Duzhin:2017:MAC**

[372] Vasilii Duzhin and Nikolay Vasilyev. Modeling of an asymptotically central Markov process on 3D Young graph. *Mathematics in Computer Science*, 11 (3–4):315–328, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Furst:2017:RRB**

[373] Christoph Fürst and Alexander Levin. Relative reduction and Buchberger's algorithm in filtered free modules. *Mathematics in Computer Science*, 11(3–4):329–339, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-017-0317-1.pdf`.

**Jeffrey:2017:BSI**

[374] David J. Jeffrey. Branch structure and implementation of Lambert $W$. *Math-*

*ematics in Computer Science*, 11(3–4): 341–350, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Kovacs:2017:RTA**

[375] Zoltán Kovács. Real-time animated dynamic geometry in the classrooms by using fast Gröbner basis computations. *Mathematics in Computer Science*, 11 (3–4):351–361, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Wojas:2017:FSD**

[376] Wlodzimierz Wojas and Jan Krupa. Familiarizing students with definition of Lebesgue integral: Examples of calculation directly from its definition using Mathematica. *Mathematics in Computer Science*, 11(3–4): 363–381, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-017-0321-5.pdf`.

**Minglibayev:2017:TBP**

[377] M. Zh. Minglibayev, A. N. Prokopenya, G. M. Mayemerova, and Zh. U. Imanova. Three-body problem with variable masses that change anisotropically at different rates. *Mathematics in Computer Science*, 11(3–4):383–391, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Oldenburg:2017:TRB**

[378] Reinhard Oldenburg. Transparent rule based CAS to support formalization of knowledge. *Mathematics in Computer Science*, 11(3–4):393–399, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Farrington:2017:SCR**

[379] Eleanor Farrington and Emma Previato. Symbolic computation for Rankin–Cohen differential algebras: A case study. *Mathematics in Computer Science*, 11(3–4):401–415, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Prokopenya:2017:MSA**

[380] Alexander N. Prokopenya. Motion of a swinging Atwood's machine: Simulation and analysis with Mathematica. *Mathematics in Computer Science*, 11 (3–4):417–425, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-017-0301-9.pdf`.

**Quaresma:2017:TID**

[381] Pedro Quaresma. Towards an intelligent and dynamic geometry book. *Mathematics in Computer Science*, 11(3–4): 427–437, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Roanes-Lozano:2017:BNA**

[382] Eugenio Roanes-Lozano. A brief note on the approach to the conic sections of a right circular cone from dynamic geometry. *Mathematics in Computer Science*, 11(3–4):439–448, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Sarafian:2017:ACA**

[383] Haiduke Sarafian. Application of computer algebra system and the mean-

value theory for evaluating electrostatic potential and its associated field for non-trivial configurations. *Mathematics in Computer Science*, 11(3–4):449–455, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Siluszyk:2017:CCC**

[384] Agnieszka Siluszyk. On a class of central configurations in the planar $3\vec{n}$-body problem. *Mathematics in Computer Science*, 11(3–4):457–467, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-017-0309-1.pdf`.

**Chrapary:2017:DCS**

[385] Hagen Chrapary, Wolfgang Dalitz, Winfried Neun, and Wolfram Sperber. Design, concepts, and state of the art of the swMATH service. *Mathematics in Computer Science*, 11(3–4):469–481, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Noro:2018:UMT**

[386] Masayuki Noro and Kazuhiro Yokoyama. Usage of modular techniques for efficient computation of ideal operations. *Mathematics in Computer Science*, 12(1):1–32, March 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Port:2018:PTS**

[387] Alexander Port, Iulia Gheorghita, Daniel Guth, John M. Clark, Crystal Liang, Shival Dasu, and Matilde Marcolli. Persistent topology of syntax. *Mathematics in Computer Science*, 12 (1):33–50, March 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Kleine:2018:EDI**

[388] Kristoffer Kleine and Dimitris E. Simos. An efficient design and implementation of the in–parameter-order algorithm. *Mathematics in Computer Science*, 12 (1):51–67, March 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Wang:2018:UDQ**

[389] Haohao Wang and Ron Goldman. Using dual quaternion to study translational surfaces. *Mathematics in Computer Science*, 12(1):69–75, March 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Lu:2018:ALL**

[390] Yingyu Lu, Guanghua Dong, Wenhui Ma, and Ning Wang. Antimagic labeling of the lexicographic product graph $K_{m,n}[P_k]$. *Mathematics in Computer Science*, 12(1):77–90, March 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**DiConcilio:2018:DPP**

[391] A. Di Concilio, C. Guadagni, J. F. Peters, and S. Ramanna. Descriptive proximities. properties and interplay between classical proximities and overlap. *Mathematics in Computer Science*, 12 (1):91–106, March 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Loja:2018:FSF**

[392] Amélia Loja, Stéphane Louis Clain, Joaquim Infante Barbosa, and José Alberto Rodrigues. Foreword to the special focus on advances in symbolic and numeric computation II.

*Mathematics in Computer Science*, 12 (2):107–109, June 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-018-0341-9.pdf`.

**Allali:2018:AOC**

[393] Karam Allali, Sanaa Harroudi, and Delfim F. M. Torres. Analysis and optimal control of an intracellular delayed HIV model with CTL immune response. *Mathematics in Computer Science*, 12 (2):111–127, June 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Mendes:2018:PCM**

[394] I. R. Mendes and P. B. Vasconcelos. PageRank computation with MAAOR and lumping methods. *Mathematics in Computer Science*, 12(2):129–141, June 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Escobar:2018:NOP**

[395] J. M. Escobar, J. Núñez, and P. Pérez-Fernández. A new one-parameter invariant function for algebras. *Mathematics in Computer Science*, 12(2):143–150, June 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Macedo:2018:SAG**

[396] Ângela Macedo, Teresa A. Mesquita, and Zélia da Rocha. Symbolic approach to the general quadratic polynomial decomposition. *Mathematics in Computer Science*, 12(2):151–172, June 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Ralha:2018:MPB**

[397] Rui Ralha. Mixed precision bisection. *Mathematics in Computer Science*, 12 (2):173–181, June 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Trindade:2018:DFC**

[398] M. Trindade, J. Matos, and P. B. Vasconcelos. Dealing with functional coefficients within Tau method. *Mathematics in Computer Science*, 12(2):183–195, June 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Matos:2018:SDI**

[399] J. C. Matos, J. M. A. Matos, and M. J. Rodrigues. Solving differential and integral equations with Tau method. *Mathematics in Computer Science*, 12 (2):197–205, June 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Retzlaff:2018:PLM**

[400] Nancy Retzlaff and Peter F. Stadler. Partially local multi-way alignments. *Mathematics in Computer Science*, 12 (2):207–234, June 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-018-0338-4.pdf`.

**Artinescu:2018:SCA**

[401] Irina Maria Artinescu and Liviu Octavian Mafteiu-Scai. A scratch covering algorithm using affine projection method. *Mathematics in Computer Science*, 12 (2):235–246, June 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Martinez-Moro:2018:F**

[402] Edgar Martínez-Moro, Josep M. Miret, and Luis Ramiro Piñeiro. Foreword. *Mathematics in Computer Science*, 12 (3):247–250, September 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-018-0371-3.pdf`.

**Badia:2018:EPM**

[403] Valentina Badia, Hebert Pérez-Rosés, and Joe Ryan. Eulogy for Professor Mirka Miller (1949–2016). *Mathematics in Computer Science*, 12(3):251–254, September 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Ryan:2018:BSC**

[404] Joe Ryan. A brief survey on the contribution of Mirka Miller to the security of statistical databases. *Mathematics in Computer Science*, 12(3):255–262, September 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Salas:2018:SBP**

[405] Julián Salas and Josep Domingo-Ferrer. Some basics on privacy techniques, anonymization and their big data challenges. *Mathematics in Computer Science*, 12(3):263–274, September 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Perez-Roses:2018:SYN**

[406] Hebert Pérez-Rosés. Sixty years of network reliability. *Mathematics in Computer Science*, 12(3):275–293, September 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Abarzua:2018:ASC**

[407] Rodrigo Abarzúa, Santi Martínez, Valeria Mendoza, and Javier Valera. Avoiding side-channel attacks by computing isogenous and isomorphic elliptic curves. *Mathematics in Computer Science*, 12 (3):295–307, September 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Miret:2018:PBC**

[408] Josep M. Miret, Daniel Sadornil, and Juan G. Tena. Pairing-based cryptography on elliptic curves. *Mathematics in Computer Science*, 12(3):309–318, September 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Adj:2018:STP**

[409] Gora Adj, Isaac Canales-Martínez, Luis Rivera-Zamarripa, and Francisco Rodríguez-Henríquez. Smoothness test for polynomials defined over small characteristic finite fields. *Mathematics in Computer Science*, 12(3):319–337, September 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Borges-Quintana:2018:WOI**

[410] Mijail Borges-Quintana, Miguel Ángel Borges-Trenard, and Edgar Martínez-Moro. On the weak order ideal associated to linear codes. *Mathematics in Computer Science*, 12(3):339–347, September 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Climent:2018:BFD**

[411] Joan-Josep Climent, Francisco J. García, and Verónica Requena. Boolean functions: Degree and support. *Mathematics in Computer Science*, 12(3):349–369, September 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Goyeneche:2018:F**

[412] Dardo Goyeneche, Ilias Kotsireas, and Padraig Ó Catháin. Foreword. *Mathematics in Computer Science*, 12(4): 371–372, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-018-0388-7.pdf`.

**Djokovic:2018:GSD**

[413] Dragomir Z. Đoković and Ilias S. Kotsireas. Goethals–Seidel difference families with symmetric or skew base blocks. *Mathematics in Computer Science*, 12 (4):373–388, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Crnkovic:2018:NST**

[414] Dean Crnković and Ronan Egan. A note on Siamese twin designs intersecting in a BIBD and a PBD. *Mathematics in Computer Science*, 12(4):389–395, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Acevedo:2018:RDS**

[415] Santiago Barrera Acevedo and Heiko Dietrich. Relative difference sets and Hadamard matrices from perfect quaternionic arrays. *Mathematics in Computer Science*, 12(4):397–406, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Alvarez:2018:MHG**

[416] V. Alvarez, J. A. Armario, R. M. Falcón, M. D. Frau, F. Gudiel, M. B. Güemes, and A. Osuna. A mixed heuristic for generating cocyclic Hadamard matrices. *Mathematics in Computer Science*, 12 (4):407–417, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Armario:2018:QHF**

[417] José Andrés Armario, Iván Bailera, Joaquim Borges, and Josep Rifà. Quasi-Hadamard full propelinear codes. *Mathematics in Computer Science*, 12(4): 419–428, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Colbourn:2018:CFF**

[418] Charles J. Colbourn and Violet R. Syrotiuk. On a combinatorial framework for fault characterization. *Mathematics in Computer Science*, 12(4):429–451, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Gillespie:2018:COA**

[419] Neil I. Gillespie, Padraig Ó Catháin, and Cheryl E. Praeger. Construction of the outer automorphism of $\mathcal{S}_6$ via a complex Hadamard matrix. *Mathematics in Computer Science*, 12(4): 453–458, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-018-0382-0.pdf`.

**Bruzda:2018:ESC**

[420] Wojciech T. Bruzda. Extension of the set of complex Hadamard matrices of size 8. *Mathematics in Computer Science*, 12(4):459–464, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-018-0379-8.pdf`.

**Winterhof:2018:NES**

[421] Arne Winterhof, Oguz Yayla, and Volker Ziegler. Non-existence of some nearly perfect sequences, near Butson–Hadamard matrices, and near conference matrices. *Mathematics in Computer Science*, 12(4):465–471, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Rajchel:2018:RHM**

[422] Grzegorz Rajchel, Adam Gasiorowski, and Karol Zyczkowski. Robust Hadamard matrices, unistochastic rays in Birkhoff polytope and equi-entangled bases in composite spaces. *Mathematics in Computer Science*, 12(4):473–490, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-018-0384-y.pdf`.

**Beaudin:2019:F**

[423] Michel Beaudin, Thierry Dana-Picard, Alexander Levin, Christoph Koutschan, Ilias Kotsireas, and Daniel Robertz. Foreword. *Mathematics in Computer Science*, 13(1–2):1–3, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-019-00391-x.pdf`.

**Benjamin:2019:APS**

[424] Jurell Benjamin, Donna Walker, Aleksandr Mylläri, and Tatiana Mylläri. On the applicability of pairwise separations method in astronomy: Influence of the noise in data. *Mathematics in Computer Science*, 13(1–2):5–10, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Blanco-Trejo:2019:FTA**

[425] S. Blanco-Trejo, C. Alemán-Morillo, F. Díaz del Río, and P. Real. Fractal topological analysis for 2D binary digital images. *Mathematics in Computer Science*, 13(1–2):11–20, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Blaser:2019:DC**

[426] Nello Blaser and Morten Brun. Divisive cover. *Mathematics in Computer Science*, 13(1–2):21–29, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-018-0352-6.pdf`.

**Blazek:2019:LCD**

[427] Jirí Blazek and Pavel Pech. Locus computation in dynamic geometry environment. *Mathematics in Computer Science*, 13(1–2):31–40, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Chan:2019:MHC**

[428] E. Y. S. Chan and R. M. Corless. Minimal height companion matrices for Euclid polynomials. *Mathematics in Computer Science*, 13(1–2):41–56, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Dana-Picard:2019:ASR**

[429] Thierry Dana-Picard. Automated study of a regular trifolium. *Mathematics in Computer Science*, 13(1–2):57–67, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Durcheva:2019:HUC**

[430] Mariana Durcheva. How to use CAS (Maple) to help students learn number theory. *Mathematics in Computer Science*, 13(1–2):69–78, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Fukasaku:2019:MHQ**

[431] Ryoya Fukasaku, Hidenao Iwane, and Yosuke Sato. On multivariate Hermitian quadratic forms. *Mathematics in Computer Science*, 13(1–2):79–93, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Hasek:2019:DGS**

[432] R. Hasek. Dynamic geometry software supplemented with a computer algebra system as a proving tool. *Mathematics in Computer Science*, 13(1–2):95–104, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Kagan:2019:PPR**

[433] Mikhail Kagan and Brian Mata. A physics perspective on the resistance distance for graphs. *Mathematics in Computer Science*, 13(1–2):105–115, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Karsenty:2019:CAC**

[434] Avi Karsenty and Yaakov Mandelbaum. Computer algebra challenges in nanotechnology: Accurate modeling of nanoscale Electro-optic devices using finite elements method. *Mathematics in Computer Science*, 13(1–2):117–130, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Kovacs:2019:ACA**

[435] Zoltán Kovács. Achievements and challenges in automatic locus and envelope animations in dynamic geometry. *Mathematics in Computer Science*, 13 (1–2):131–141, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-018-0390-0.pdf`.

**Kozera:2019:MHI**

[436] R. Kozera and M. Wilkołazka. A modified Hermite interpolation with exponential parameterization. *Mathematics in Computer Science*, 13(1–2):143–155, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-018-0362-4.pdf`.

**Levin:2019:BDQ**

[437] Alexander Levin. Bivariate dimension quasi-polynomials of difference–differential field extensions with weighted basic operators. *Mathematics in Computer Science*, 13(1–2):157–168, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Mansour:2019:PPC**

[438] Toufik Mansour and Matthias Schork. Permutation patterns and cell decompositions. *Mathematics in Computer Science*, 13(1–2):169–183, June 2019. CO-

DEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Nabeshima:2019:SPI**

[439] Katsusuke Nabeshima and Shinichi Tajima. Solving parametric ideal membership problems and computing integral numbers in a ring of convergent power series via comprehensive Gröbner systems. *Mathematics in Computer Science*, 13(1–2):185–194, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Naiman:2019:AFA**

[440] Aaron E. Naiman. Automated function analysis for calculus. *Mathematics in Computer Science*, 13(1–2):195–204, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Ohara:2019:ACG**

[441] Katsuyoshi Ohara and Shinichi Tajima. An algorithm for computing Grothendieck local residues I: Shape basis case. *Mathematics in Computer Science*, 13(1–2): 205–216, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Ovodenko:2019:UDT**

[442] Regina Ovodenko and Anatoli Kouropatov. The use of digital tools to confront errors during advanced calculus learning: The case of the inflection point. *Mathematics in Computer Science*, 13 (1–2):217–236, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Galan-Garcia:2019:F**

[443] José L. Galán-García, Gabriel Aguilera-Venegas, and María Á. Galán-García. Foreword. *Mathematics in Computer Science*, 13(3):329–331, September 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-019-00408-5.pdf`.

**Lebedev:2019:MCQ**

[444] Eugene Lebedev and Hanna Livinska. Multi-channel queueing networks with input flow controlled by semi–Markov process. *Mathematics in Computer Science*, 13(3):333–340, September 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Kohlwey:2019:HEE**

[445] Elena Kohlwey and Melven Röhrig-Zöllner. Half-explicit exponential Runge–Kutta methods for index-1 DAEs in helicopter simulation. *Mathematics in Computer Science*, 13(3):341–365, September 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Siggel:2019:TOS**

[446] Martin Siggel, Jan Kleinert, Tobias Stollenwerk, and Reinhold Maierl. TiGL: An open source computational geometry library for parametric aircraft design. *Mathematics in Computer Science*, 13 (3):367–389, September 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Juarez-del-Toro:2019:AIC**

[447] R. Juarez del Toro, J. G. Castrejón-Lozano, C. A. Gomez-Rosales, and S. López-Chavarría. Application of an intelligent control on economics dynamic system: The attractive invariant ellipsoid approach. *Mathematics in Com-*

*puter Science*, 13(3):391–401, September 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**deLeon:2019:CBM**

[448] José Alfredo Sánchez de León. Calculation of binomial and multinomial coefficients by sequences of summations. *Mathematics in Computer Science*, 13 (3):403–415, September 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Roanes-Lozano:2019:SRA**

[449] Eugenio Roanes-Lozano, Jose Luis Galán-García, and Carmen Solano-Macías. Some reflections about the success and impact of the computer algebra system DERIVE with a 10-year time perspective. *Mathematics in Computer Science*, 13(3):417–431, September 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Aydogan:2019:CFC**

[450] S. Melike Aydogan and F. Müge Sakar. On convex functions with complex order through bounded boundary rotation. *Mathematics in Computer Science*, 13 (3):433–439, September 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Sakar:2019:BIC**

[451] F. Müge Sakar and S. Melike Aydogan. Bounds on initial coefficients for a certain new subclass of bi-univalent functions by means of Faber polynomial expansions. *Mathematics in Computer Science*, 13(3):441–447, September 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Roanes-Lozano:2019:AAD**

[452] Eugenio Roanes-Lozano, Rubén González-Martín, and Javier Montero. An algebraic approach to DC railway electrification verification. *Mathematics in Computer Science*, 13(3):449–457, September 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Davenport:2019:F**

[453] James H. Davenport, Laura Kovacs, and Daniela Zaharie. Foreword. *Mathematics in Computer Science*, 13(4): 459–460, December 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-019-00411-w.pdf`.

**Huang:2019:UML**

[454] Zongyan Huang, Matthew England, David J. Wilson, James Bridge, James H. Davenport, and Lawrence C. Paulson. Using machine learning to improve cylindrical algebraic decomposition. *Mathematics in Computer Science*, 13(4):461–488, December 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-019-00394-8.pdf`.

**Andrei:2019:PBE**

[455] Stefan Andrei, Albert M. K. Cheng, and Vlad Radulescu. Processor bounding for an efficient non-preemptive task scheduling algorithm. *Mathematics in Computer Science*, 13(4):489–515, December 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Lichtblau:2019:APG**

[456] Daniel Lichtblau. Approximate polynomial GCD by approximate syzygies. *Mathematics in Computer Science*, 13 (4):517–532, December 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Heule:2019:OSB**

[457] Marijn J. H. Heule. Optimal symmetry breaking for graph problems. *Mathematics in Computer Science*, 13(4):533–548, December 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Panayotopoulos:2020:MC**

[458] A. Panayotopoulos. On meandric colliers. *Mathematics in Computer Science*, 14(1):1–8, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**daSilva:2020:VCG**

[459] Eduardo Sant'Ana da Silva and Helio Pedrini. Vertex coloring of a graph for memory constrained scenarios. *Mathematics in Computer Science*, 14(1):9–17, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Decker:2020:MTN**

[460] Wolfram Decker, Christian Eder, Viktor Levandovskyy, and Sharwan K. Tiwari. Modular techniques for noncommutative Gröbner bases. *Mathematics in Computer Science*, 14(1):19–33, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Sari:2020:DCS**

[461] Mustafa Sari and Emre Kolotoglu. A different construction for some classes of quantum MDS codes. *Mathematics in Computer Science*, 14(1):35–44, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Dana-Picard:2020:EIF**

[462] Thierry Dana-Picard, Aharon Naiman, Witold Mozgawa, and Waldemar Cieślak. Exploring the isoptics of Fermat curves in the affine plane using DGS and CAS. *Mathematics in Computer Science*, 14(1):45–67, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Blecher:2020:DC**

[463] Aubrey Blecher, Charlotte Brennan, Arnold Knopfmacher, and Toufik Mansour. The depth of compositions. *Mathematics in Computer Science*, 14(1): 69–76, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Manin:2020:NDP**

[464] Yuri I. Manin and Matilde Marcolli. Nori diagrams and persistent homology. *Mathematics in Computer Science*, 14 (1):77–102, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Aksim:2020:EAB**

[465] Dan Aksim and Dmitry Pavlov. On the extension of Adams–Bashforth–Moulton methods for numerical integration of delay differential equations and application to the Moon's orbit. *Mathematics in Computer Science*, 14(1):103–109,

March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Dey:2020:THR**

[466] Papri Dey and Daniel Plaumann. Testing hyperbolicity of real polynomials. *Mathematics in Computer Science*, 14 (1):111–121, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Hashemi:2020:CCB**

[467] Amir Hashemi, Martin Kreuzer, and Samira Pourkhajouei. Computing coupled border bases. *Mathematics in Computer Science*, 14(1):123–140, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Choudhary:2020:CTG**

[468] Aruni Choudhary, Siargey Kachanovich, and Mathijs Wintraecken. Coxeter triangulations have good quality. *Mathematics in Computer Science*, 14 (1):141–176, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-020-00461-5.pdf`.

**Horacek:2020:SBB**

[469] Jan Horácek, Martin Kreuzer, and Ange-Salomé Messeng Ekossono. A signature based border basis algorithm. *Mathematics in Computer Science*, 14 (1):177–189, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Bigatti:2020:F**

[470] Anna Maria Bigatti, Francisco Botana, Thierry Dana-Picard, Felipe Gago, Ilias Kotsireas, Manuel Ladra, and Wei Li. Foreword. *Mathematics in Computer Science*, 14(2):191–192, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-019-00445-0.pdf`.

**Almech:2020:AGD**

[471] Alberto Almech and Eugenio Roanes-Lozano. Automatic generation of diagrammatic subway maps for any date with Maple. *Mathematics in Computer Science*, 14(2):193–207, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Ku-Cauich:2020:CER**

[472] Juan Carlos Ku-Cauich and Guillermo Morales-Luna. Conversion of element representations in Galois rings. *Mathematics in Computer Science*, 14(2): 209–222, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Kozera:2020:NMH**

[473] R. Kozera and M. Wilkołazka. A note on modified Hermite interpolation. *Mathematics in Computer Science*, 14(2): 223–239, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Minglibayev:2020:CPT**

[474] Mukhtar Minglibayev, Alexander Prokopenya, and Saule Shomshekova. Computing perturbations in the two-planetary three-body problem with masses varying non-isotropically at different rates. *Mathematics in Computer Science*, 14 (2):241–251, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Wojas:2020:FSD**

[475] Włodzimierz Wojas, Jan Krupa, and Jarosław Bojarski. Familiarizing students with definition of Lebesgue outer measure using Mathematica: Some examples of calculation directly from its definition. *Mathematics in Computer Science*, 14(2):253–270, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-019-00435-2.pdf`.

**Prank:2020:ACE**

[476] Rein Prank. Analysing the "calculator effect" of different kinds of software for school arithmetic and algebra. *Mathematics in Computer Science*, 14 (2):271–279, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Braun:2020:NAV**

[477] Elishan Braun, Werner M. Seiler, and Matthias Seiß. On the numerical analysis and visualisation of implicit ordinary differential equations. *Mathematics in Computer Science*, 14(2):281–293, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Edneral:2020:NOS**

[478] Victor F. Edneral and Alexander G. Petrov. Nonlinear oscillations of a spring pendulum at the 1:1:2 resonance by normal form methods. *Mathematics in Computer Science*, 14(2):295–303, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Perminov:2020:IHD**

[479] A. S. Perminov and E. D. Kuznetsov. The implementation of Hori–Deprit method to the construction averaged planetary motion theory by means of computer algebra system Piranha. *Mathematics in Computer Science*, 14 (2):305–316, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Bavula:2020:CSM**

[480] V. V. Bavula. Classification of simple modules of the Ore extension $K[X][Y; f\frac{d}{dX}]$. *Mathematics in Computer Science*, 14(2):317–325, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-019-00414-7.pdf`.

**Falkensteiner:2020:SFO**

[481] Sebastian Falkensteiner and J. Rafael Sendra. Solving first order autonomous algebraic ordinary differential equations by places. *Mathematics in Computer Science*, 14(2):327–337, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Bavula:2020:SCA**

[482] V. V. Bavula. Skew category algebras. *Mathematics in Computer Science*, 14(2):339–346, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-019-00415-6.pdf`.

**Evgrafov:2020:DPE**

[483] Alexander Evgrafov and Alexander Levin. Dimension polynomials and the Einstein's strength of some systems of quasi-linear algebraic difference equations. *Mathematics in Computer Science*, 14(2):347–360, June 2020. CO-

DEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Levin:2020:MDD**

[484] Alexander Levin. Multivariate difference–differential dimension polynomials. *Mathematics in Computer Science*, 14 (2):361–374, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Falcon:2020:UCD**

[485] Raúl M. Falcón. Using a CAS/DGS to analyze computationally the configuration of planar bar linkage mechanisms based on partial latin squares. *Mathematics in Computer Science*, 14 (2):375–389, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Hasek:2020:EDC**

[486] Roman Hasek. Exploration of dual curves using a dynamic geometry and computer algebra system. *Mathematics in Computer Science*, 14(2):391–398, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Takato:2020:UOS**

[487] Setsuo Takato and José A. Vallejo. Using Oshima splines to produce accurate numerical results and high quality graphical output. *Mathematics in Computer Science*, 14(2):399–413, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Bernal:2020:CAC**

[488] José Joaquín Bernal, Diana H. Bueno-Carreño, and Juan Jacobo Simón. Constructions of Abelian codes multiplying dimension of cyclic codes. *Mathematics in Computer Science*, 14(2):415–421, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Bouyuklieva:2020:BIC**

[489] Stefka Bouyuklieva, Radka Russeva, and Emine Karatash. Binary isodual codes having an automorphism of odd prime order. *Mathematics in Computer Science*, 14(2):423–429, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Labahn:2020:F**

[490] George Labahn, James H. Davenport, and Josef Urban. Foreword. *Mathematics in Computer Science*, 14(3): 531–532, September 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-020-00475-z.pdf`.

**Ekici:2020:MLC**

[491] Burak Ekici and Cezary Kaliszyk. Mac Lane's comparison theorem for the Kleisli construction formalized in Coq. *Mathematics in Computer Science*, 14 (3):533–549, September 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-020-00450-8.pdf`.

**Lewis:2020:IAI**

[492] Robert H. Lewis. Image analysis: Identification of objects via polynomial systems. *Mathematics in Computer Science*, 14(3):551–558, September 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://`

link.springer.com/content/pdf/10.1007/s11786-020-00451-7.pdf.

**Bercic:2020:DFD**

[493] Katja Bercic and Janos Vidali. DiscreteZOO: A fingerprint database of discrete objects. *Mathematics in Computer Science*, 14(3):559–575, September 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/content/pdf/10.1007/s11786-020-00453-5.pdf.

**Brysiewicz:2020:NSC**

[494] Taylor Brysiewicz. Numerical software to compute Newton polytopes and tropical membership. *Mathematics in Computer Science*, 14(3):577–589, September 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/content/pdf/10.1007/s11786-020-00454-4.pdf.

**Alpuente:2020:ESE**

[495] M. Alpuente, D. Ballis, and J. Sapiña. Efficient safety enforcement for Maude programs via program specialization in the ÁTAME system. *Mathematics in Computer Science*, 14(3):591–606, September 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/content/pdf/10.1007/s11786-020-00455-3.pdf.

**Kim:2020:PSP**

[496] Seyeon Kim, Marco Pollanen, Michael G. Reynolds, and Wesley S. Burr. Problem solving as a path to comprehension. *Mathematics in Computer Science*, 14(3):607–621, September 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/content/pdf/10.1007/s11786-020-00457-1.pdf.

**Jiu:2020:CPZ**

[497] Lin Jiu and Christoph Koutschan. Calculation and properties of zonal polynomials. *Mathematics in Computer Science*, 14(3):623–640, September 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/content/pdf/10.1007/s11786-020-00458-0.pdf.

**DiCrescenzo:2020:ESD**

[498] Giovanni Di Crescenzo, Matluba Khodjaeva, Delaram Kahrobaei, and Vladimir Shpilrain. Efficient and secure delegation of exponentiation in general groups to a single malicious server. *Mathematics in Computer Science*, 14(3):641–656, September 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/content/pdf/10.1007/s11786-020-00462-4.pdf.

**Jakubuv:2020:RWP**

[499] Jan Jakubuv and Cezary Kaliszyk. Relaxed weighted path order in theorem proving. *Mathematics in Computer Science*, 14(3):657–670, September 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL http://link.springer.com/content/pdf/10.1007/s11786-020-00474-0.pdf.

**Chen:2020:FSF**

[500] Xiaoyu Chen, Hongbo Li, and Jing Yang. Foreword to the special focus on automated deduction in geometry. *Mathematics in Computer Science*, 14

(4):671–672, December 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-020-00488-8.pdf`.

**Quaresma:2020:ADK**

[501] Pedro Quaresma. Automated deduction and knowledge management in geometry. *Mathematics in Computer Science*, 14(4):673–692, December 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-020-00489-7.pdf`.

**Todd:2020:SDG**

[502] Philip Todd. A symbolic dynamic geometry system using the analytical geometry method. *Mathematics in Computer Science*, 14(4):693–726, December 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-020-00490-0.pdf`.

**Kovacs:2020:ADI**

[503] Zoltán Kovács. Automated detection of interesting properties in regular polygons. *Mathematics in Computer Science*, 14(4):727–755, December 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-020-00491-z.pdf`.

**Wang:2020:SAA**

[504] Dongming Wang, Bo Huang, and Xiaoyu Chen. On $n$-sectors of the angles of an arbitrary triangle. *Mathematics in Computer Science*, 14(4):757–773, December 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-020-00492-y.pdf`.

**Todd:2020:SAD**

[505] Philip Todd. A system for automated deduction in engineering mechanics. *Mathematics in Computer Science*, 14(4):775–790, December 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-020-00493-x.pdf`.

**Loja:2021:FSF**

[506] Amélia Loja, Paulo Vasconcelos, Joaquim Infante Barbosa, and José Alberto Rodrigues. Foreword to the special focus on advances in symbolic and numeric computation III. *Mathematics in Computer Science*, 15(1):1–4, March 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `http://link.springer.com/content/pdf/10.1007/s11786-020-00487-9.pdf`.

**daRocha:2021:CPB**

[507] Zélia da Rocha. Common points between perturbed Chebyshev polynomials of second kind. *Mathematics in Computer Science*, 15(1):5–13, March 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Mesquita:2021:OPS**

[508] Teresa Augusta Mesquita. On a 2-orthogonal polynomial sequence via quadratic decomposition. *Mathematics in Computer Science*, 15(1):15–31, March 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Escobar:2021:INT**

[509] J. M. Escobar, J. Núñez-Valdés, and P. Pérez-Fernández. Introducing a new two-parameter invariant function for algebras. *Mathematics in Computer Science*, 15(1):33–44, March 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Matos:2021:EFI**

[510] José M. A. Matos, Maria João Rodrigues, and João Carrilho de Matos. Explicit formulae for integro–differential operational matrices. *Mathematics in Computer Science*, 15(1):45–61, March 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Conceicao:2021:SCA**

[511] Ana C. Conceição. Symbolic computation applied to the study of the kernel of special classes of paired singular integral operators. *Mathematics in Computer Science*, 15(1):63–90, March 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Ammi:2021:GSC**

[512] Moulay Rchid Sidi Ammi, Mostafa Tahiri, and Delfim F. M. Torres. Global stability of a Caputo fractional SIRS model with general incidence rate. *Mathematics in Computer Science*, 15 (1):91–105, March 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Silva:2021:SSO**

[513] Cristiana J. Silva and Guillaume Cantin. Synchronization and self-organization in complex networks for a tuberculosis model. *Mathematics in Computer Science*, 15(1):107–120, March 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Mota:2021:EEB**

[514] P. R. Mota and P. B. Vasconcelos. Estimating the employment band of inaction with multiple breaks due to labor market reforms. *Mathematics in Computer Science*, 15(1):121–133, March 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Adak:2021:CVE**

[515] Dibyendu Adak and Sundararajan Natarajan. On the $H^1$ conforming virtual element method for time dependent Stokes equation. *Mathematics in Computer Science*, 15(1):135–154, March 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**Piloto:2021:CST**

[516] Paulo A. G. Piloto, Carlos Balsa, Fernando Ribeiro, and Ronaldo Rigobello. Computational simulation of the thermal effects on composite slabs under fire conditions. *Mathematics in Computer Science*, 15(1):155–171, March 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

**England:2021:FDA**

[517] Matthew England, Wolfram Koepf, and Thomas Sturm. Foreword, with a dedication to Andreas Weber. *Mathematics in Computer Science*, 15(2):173–175, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `https://link.springer.com/article/10.1007/s11786-020-00476-y`.

**Boulier:2021:SCT**

[518] François Boulier, François Lemaire, and Adrien Poteaux. A short contribution to the theory of regular chains. *Mathematics in Computer Science*, 15(2):177–188, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-020-00477-x.

**Cano:2021:ARP**

[519] José Cano, Sebastian Falkensteiner, and J. Rafael Sendra. Algebraic, rational and Puiseux series solutions of systems of autonomous algebraic ODEs of dimension one. *Mathematics in Computer Science*, 15(2):189–198, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-020-00478-w.

**Grigoriev:2021:EER**

[520] Dima Grigoriev, Alexandru Iosif, and Andreas Weber. Efficiently and effectively recognizing toricity of steady state varieties. *Mathematics in Computer Science*, 15(2):199–232, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-020-00479-9.

**Hashemi:2021:DUB**

[521] Amir Hashemi, Hossein Parnian, and Werner M. Seiler. Degree upper bounds for involutive bases. *Mathematics in Computer Science*, 15(2):233–254, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-020-00480-2.

**Hu:2021:TDG**

[522] Youren Hu and Xiao-Shan Gao. Tropical differential Gröbner bases. *Mathematics in Computer Science*, 15(2):255–269, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-020-00481-1.

**Imbach:2021:CCZ**

[523] Rémi Imbach, Marc Pouget, and Chee Yap. Clustering complex zeros of triangular systems of polynomials. *Mathematics in Computer Science*, 15(2):271–292, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-020-00482-0.

**Mohammadi:2021:SBA**

[524] Zahra Mohammadi, Gregory J. Reid, and S.-L. Tracy Huang. Symmetry-based algorithms for invertible mappings of polynomially nonlinear PDE to linear PDE. *Mathematics in Computer Science*, 15(2):293–316, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-020-00483-z.

**Nabeshima:2021:TZD**

[525] Katsusuke Nabeshima and Shinichi Tajima. Testing zero-dimensionality of varieties at a point. *Mathematics in Computer Science*, 15(2):317–331, June

2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-020-00484-y.

**Seiler:2021:LBA**

[526] Werner M. Seiler, Matthias Seiß, and Thomas Sturm. A logic based approach to finding real singularities of implicit ordinary differential equations. *Mathematics in Computer Science*, 15(2):333–352, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-020-00485-x.

**Tajima:2021:ACT**

[527] Shinichi Tajima and Katsusuke Nabeshima. An algorithm for computing torsion differential forms associated with an isolated hypersurface singularity. *Mathematics in Computer Science*, 15(2): 353–367, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-020-00486-w.

**England:2021:FDV**

[528] Matthew England, François Boulier, and Thomas Sturm. Foreword, with a dedication to Vladimir Gerdt. *Mathematics in Computer Science*, 15(3):369–371, September 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-021-00509-0.

**Brehard:2021:SNV**

[529] Florent Bréhard. A symbolic-numeric validation algorithm for linear ODEs with Newton–Picard method. *Mathematics in Computer Science*, 15(3):373–405, September 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-021-00510-7.

**Gutnik:2021:SCE**

[530] Sergey A. Gutnik and Vasily A. Sarychev. Symbolic computations of the equilibrium orientations of a system of two connected bodies moving on a circular orbit around the Earth. *Mathematics in Computer Science*, 15(3):407–417, September 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-021-00511-6.

**Hashemi:2021:IGA**

[531] Amir Hashemi, Thomas Izgin, and Werner M. Seiler. An involutive GVW algorithm and the computation of Pommaret bases. *Mathematics in Computer Science*, 15(3):419–452, September 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-021-00512-5.

**Hashemi:2021:RGI**

[532] Amir Hashemi, Matthias Orth, and Werner M. Seiler. Relative Gröbner and involutive bases for ideals in quotient rings. *Mathematics in Computer Science*, 15(3):453–482, September 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/

article/10.1007/s11786-021-00513-4.

**Koutschan:2021:CTM**

[533] Christoph Koutschan and Elaine Wong. Creative telescoping on multiple sums. *Mathematics in Computer Science*, 15 (3):483–498, September 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-021-00514-3.

**Kruff:2021:ARB**

[534] Niclas Kruff, Christoph Lüders, and Sebastian Walcher. Algorithmic reduction of biological networks with multiple time scales. *Mathematics in Computer Science*, 15(3):499–534, September 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-021-00515-2.

**Ferras:2021:HOM**

[535] Luís L. Ferrás, Neville Ford, and Magda Rebelo. High-order methods for systems of fractional ordinary differential equations and their application to time-fractional diffusion equations. *Mathematics in Computer Science*, 15(4):535–551, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-019-00448-x.

**Beltrametti:2021:GHT**

[536] M. C. Beltrametti, C. Campi, and M. Torrente. Geometry of the Hough transforms with applications to synthetic data. *Mathematics in Computer Science*, 15(4):553–575, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-020-00470-4.

**Schneider:2021:AMP**

[537] Carsten Schneider. The absentminded passengers problem: a motivating challenge solved by computer algebra. *Mathematics in Computer Science*, 15(4):577–588, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-020-00494-w.

**Middeke:2021:CFF**

[538] Johannes Middeke, David J. Jeffrey, and Christoph Koutschan. Common factors in fraction-free matrix decompositions. *Mathematics in Computer Science*, 15(4):589–608, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-020-00495-9.

**Berkemer:2021:CPA**

[539] Sarah J. Berkemer, Christian Höner zu Siederdissen, and Peter F. Stadler. Compositional properties of alignments. *Mathematics in Computer Science*, 15 (4):609–630, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-020-00496-8.

**Botana:2021:MG**

[540] Francisco Botana, Zoltán Kovács, and Tomás Recio. A mechanical geometer. *Mathematics in Computer Science*, 15(4):631–641, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-020-00497-7.

**Ortegaray:2021:HKA**

[541] Andrew Ortegaray, Robert C. Berwick, and Matilde Marcolli. Heat kernel analysis of syntactic structures. *Mathematics in Computer Science*, 15(4):643–660, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-021-00498-0.

**Solin:2021:SPI**

[542] Pavel Solin. Self-paced, instructor-assisted approach to teaching linear algebra. *Mathematics in Computer Science*, 15(4):661–687, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-021-00499-z.

**Roanes-Lozano:2021:UFE**

[543] Eugenio Roanes-Lozano and Carmen Solano-Macías. Using fractals and Turtle Geometry to visually explain the spread of a virus to kids: a STEM multitarget activity. *Mathematics in Computer Science*, 15(4):689–699, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-021-00500-9.

**Mansour:2021:CLP**

[544] Toufik Mansour, José L. Ramírez, and Diana A. Toquica. Counting lattice points on bargraphs of Catalan words. *Mathematics in Computer Science*, 15(4):701–713, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-021-00501-8.

**Kacker:2021:FEC**

[545] Raghu N. Kacker, D. Richard Kuhn, and Dimitris E. Simos. Factorials experiments, covering arrays, and combinatorial testing. *Mathematics in Computer Science*, 15(4):715–739, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-021-00502-7. See correction [546].

**Kacker:2021:CFE**

[546] Raghu N. Kacker, D. Richard Kuhn, and Dimitris E. Simos. Correction to: Factorials experiments, covering arrays, and combinatorial testing. *Mathematics in Computer Science*, 15(4):741, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-021-00516-1. See [545].

**Jia:2021:LEK**

[547] Nan Jia, Yaping Mao, and Eddie Cheng. Linear $k$-arboricity of caylay graphs on Abelian groups with

given degree. *Mathematics in Computer Science*, 15(4):743–755, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `https://link.springer.com/article/10.1007/s11786-021-00503-6`.

**Dana-Picard:2021:EOT**

[548] Thierry Dana-Picard. Envelopes and offsets of two algebraic plane curves: Exploration of their similarities and differences. *Mathematics in Computer Science*, 15(4):757–774, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `https://link.springer.com/article/10.1007/s11786-021-00504-5`.

**Aggarwal:2021:XBF**

[549] Anurag Aggarwal, Zoltán Kovács, and Jonathan Wolfe. XaoS 4.0 and beyond: Fractals in mathematics education. *Mathematics in Computer Science*, 15(4):775–788, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `https://link.springer.com/article/10.1007/s11786-021-00505-4`.

**Kovacs:2021:TAC**

[550] Zoltán Kovács. Two almost-circles, and two real ones. *Mathematics in Computer Science*, 15(4):789–801, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `https://link.springer.com/article/10.1007/s11786-021-00506-3`.

**Shu:2021:PIE**

[551] Kevin Shu, Andrew Ortegaray, and Matilde Marcolli. Phylogenetics of Indo-European language families via an algebro-geometric analysis of their syntactic structures. *Mathematics in Computer Science*, 15(4):803–857, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `https://link.springer.com/article/10.1007/s11786-021-00507-2`.

**Adamou:2021:CTV**

[552] Ibrahim Adamou and Bernard Mourrain. Computing the topology of Voronoï diagrams of parallel half-lines. *Mathematics in Computer Science*, 15(4):859–876, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `https://link.springer.com/article/10.1007/s11786-021-00508-1`.

**Vlachakis:2021:MMM**

[553] Dimitrios Vlachakis and Panayiotis Vlamos. Mathematical multidimensional modelling and structural artificial intelligence pipelines provide insights for the designing of highly specific AntiSARS-CoV2 agents. *Mathematics in Computer Science*, 15(4):877–888, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `https://link.springer.com/article/10.1007/s11786-021-00517-0`.

**Mansour:2021:CCC**

[554] Toufik Mansour, Reza Rastegar, and Armend Sh. Shabani. On column-convex and convex Carlitz polyominoes. *Mathematics in Computer Science*, 15(4):

889–898, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-021-00518-z.

**Archibald:2022:PCC**

[555] Margaret Archibald, Aubrey Blecher, and Arnold Knopfmacher. Protected cells in compositions. *Mathematics in Computer Science*, 16(1):??, March 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-021-00519-y.

**Port:2022:TAS**

[556] Alexander Port, Taelin Karidi, and Matilde Marcolli. Topological analysis of syntactic structures. *Mathematics in Computer Science*, 16(1):??, March 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-021-00520-5.

**Spahn:2022:ESG**

[557] George Spahn. Enumerating solutions to grid-based puzzles with a fixed number of rows. *Mathematics in Computer Science*, 16(2–3):??, September 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-022-00530-x.

**Laurian:2022:FBW**

[558] Azebaze Guimagang Laurian, Fouotsa Emmanuel, El Mrabet Nadia, and Pecha Njiahouo Aminatou. Faster beta Weil pairing on BLS pairing friendly curves with odd embedding degree. *Mathematics in Computer Science*, 16(2–3):??, September 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-022-00531-w.

**Ishihara:2022:ELP**

[559] Yuki Ishihara. Efficient localization at a prime ideal without producing unnecessary primary components. *Mathematics in Computer Science*, 16(2–3):??, September 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-022-00537-4.

**Gutnik:2022:CAM**

[560] Sergey A. Gutnik and Vasily A. Sarychev. Computer algebra methods for searching the stationary motions of the connected bodies system moving in gravitational field. *Mathematics in Computer Science*, 16(2–3):??, September 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-022-00535-6.

**England:2022:F**

[561] Matthew England, François Boulier, Timur Sadykov, and Thomas Sturm. Foreword. *Mathematics in Computer Science*, 16(2–3):??, September 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-022-00533-8.

**Hofstadler:2022:CEC**

[562] Clemens Hofstadler, Clemens G. Raab, and Georg Regensburger. Computing elements of certain form in ideals to prove properties of operators. *Mathematics in Computer Science*, 16(2–3):??, September 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `https://link.springer.com/article/10.1007/s11786-022-00536-5`.

**Chen:2022:FMP**

[563] Tian Chen and Michael Monagan. Factoring multivariate polynomials represented by black boxes: a Maple + C implementation. *Mathematics in Computer Science*, 16(2–3):??, September 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `https://link.springer.com/article/10.1007/s11786-022-00534-7`.

**Karpov:2022:DLA**

[564] Peter Karpov. Design of low-artifact interpolation kernels by means of computer algebra. *Mathematics in Computer Science*, 16(2–3):??, September 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `https://link.springer.com/article/10.1007/s11786-022-00538-3`.

**Levin:2022:NTD**

[565] Alexander Levin. A new type of difference dimension polynomials. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `https://link.springer.com/article/10.1007/s11786-022-00540-9`.

**Greuel:2022:USS**

[566] Gert-Martin Greuel, Gerhard Pfister, and Hans Schönemann. Using semicontinuity for standard bases computations. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `https://link.springer.com/article/10.1007/s11786-022-00539-2`.

**Wester:2022:MVG**

[567] Michael J. Wester. Memories of Vladimir Gerdt. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `https://link.springer.com/article/10.1007/s11786-022-00541-8`.

**Pommaret:2022:HMS**

[568] J.-F. Pommaret. How many structure constants do exist in Riemannian geometry? *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `https://link.springer.com/article/10.1007/s11786-022-00546-3`.

**Kotsireas:2022:PRP**

[569] Ilias S. Kotsireas. Personal recollections of Prof. Vladimir P. Gerdt. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL `https://link.springer.com/`

article/10.1007/s11786-022-00545-4.

**Wang:2022:SNR**

[570] Dongming Wang. SMS Nanning and RWTH Aachen: In memory of Vladimir Gerdt. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-022-00543-6.

**Seiler:2022:YVG**

[571] Werner M. Seiler. 30 years with Vladimir Gerdt. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-022-00544-5.

**Buchberger:2022:VGC**

[572] Bruno Buchberger. Vladimir Gerdt: a computer algebra enthusiast. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-022-00542-7.

**Robertz:2022:F**

[573] Daniel Robertz and Werner M. Seiler. Foreword. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-022-00550-7.

**Ceria:2022:NGJ**

[574] Michela Ceria and Ferdinando Mora. De Nugis Groebnerialium 7: Janet, Gerdt, Tamari. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-022-00549-0.

**Ceria:2022:ABC**

[575] Michela Ceria. Applications of bar code to involutive divisions and a "Greedy" algorithm for complete sets. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-022-00548-1.

**Brown:2022:CAR**

[576] Christopher W. Brown, Zoltán Kovács, Tomás Recio, Róbert Vajda, and M. Pilar Vélez. Is computer algebra ready for conjecturing and proving geometric inequalities in the classroom? *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-022-00532-9.

**Beuchler:2022:RQH**

[577] Sven Beuchler, Tim Haubold, and Veronika Pillwein. Recurrences for quadrilateral high-order finite elements. *Mathematics in Computer Science*, 16 (4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.

com/article/10.1007/s11786-022-00547-2.

**Roanes-Lozano:2023:CBM**

[578] Eugenio Roanes-Lozano. Can I bring my calculator to the exam? Some reflections on the abstraction level of computer algebra systems. *Mathematics in Computer Science*, 17(1):??, March 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-022-00551-6.

**Crnkovic:2023:CTE**

[579] Dean Crnković, Vedrana Mikulić Crnković, and Andrea Svob. Construction of transitive $q$-analogs of designs. *Mathematics in Computer Science*, 17 (1):??, March 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-022-00554-3.

**Dana-Picard:2023:AEE**

[580] Thierry Dana-Picard and Zoltán Kovács. Automated exploration of envelopes and offsets with networking of technologies. *Mathematics in Computer Science*, 17 (1):??, March 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-022-00555-2.

**Chien:2023:TTD**

[581] Bui Van Chien, Gérard H. E. Duchamp, Ngo Quoc Hoan, Hoang Ngoc Minh Vincel, and Nguyen Dinh Vu. Towards a theory of domains for harmonic functions and its symbolic counterpart. *Mathematics in Computer Science*, 17 (1):??, March 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-022-00552-5.

**Stoichev:2023:UPP**

[582] Stoicho D. Stoichev and Mustafa Gezek. Unitals in projective planes of order 25. *Mathematics in Computer Science*, 17(1):??, March 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-023-00556-9.

**Tajima:2023:CHM**

[583] Shinichi Tajima, Katsusuke Nabeshima, Katsuyoshi Ohara, and Yoko Umeta. Computing holonomic $D$-modules associated to a family of non-isolated hypersurface singularities via comprehensive Gröbner systems of PBW algebra. *Mathematics in Computer Science*, 17(1):??, March 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-022-00553-4.

**Bujnowski:2023:ETP**

[584] Sławomir Bujnowski, Beata Marciniak, Olutayo Oyeyemi Oyerinde, Zbigniew Lutowski, Adam Flizikowski, and Sebastián García Galan. Equalising the transmission properties of graph-modelled networks by introducing the control of the resources used to transmit information. *Mathematics in Computer Science*, 17(2):??, June 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/

article/10.1007/s11786-023-00559-6.

**Roanes-Lozano:2023:SRA**

[585] Eugenio Roanes-Lozano and Carmen Solano-Macías. Some reflections about the success and bibliographic impact of the dynamic geometry system *GeoGebra*. *Mathematics in Computer Science*, 17(2):??, June 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-023-00564-9.

**Flizikowski:2023:SAN**

[586] Adam Flizikowski, Tomasz Marciniak, Tadeusz A. Wysocki, and Olutayo Oyerinde. Selected aspects of non orthogonal multiple access for future wireless communications. *Mathematics in Computer Science*, 17(2):??, June 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-023-00561-y.

**Srivastava:2023:HLB**

[587] Snehil Srivastava and Panchatcharam Mariappan. Hyperbolic lattice Boltzmann method and discrete Boltzmann method for solid–liquid phase change problem. *Mathematics in Computer Science*, 17(2):??, June 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-023-00563-w.

**Laszlo:2023:CSB**

[588] Michael Laszlo and Sumitra Mukherjee. Counting star–battle configurations. *Mathematics in Computer Science*, 17(2):??, June 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL https://link.springer.com/article/10.1007/s11786-023-00558-7.