

A Bibliography of Publications about the *Icon* Programming Language

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/>

14 October 2017
Version 1.23

Abstract

This bibliography records books and other publications about the Icon programming language.

Based [PTTA99]. brief [Han93].

character [Gri80]. **Chicon** [WLL98]. **Chinese** [WLL98]. **class** [Wal89]. **Co** [WG83a]. **Co-expressions** [WG83a]. **Collection** [FH92]. **command** [FH83]. **Compiler** [Slo95, WG92]. **computation** [Gri94]. **computer** [BSK87]. **Computing** [Chr89]. **Concurrent** [Nil90a]. **Conference** [HOP93, BSK87]. **Control** [GN83].

Title word cross-reference

2nd [HOP93].

Data [Gri89, Nil90b]. **Defined** [GN83].

'87 [BSK87, Wex87].

Denotational [Gud92]. **Design** [GT93].

ACM [HOP93]. **actors** [Chr89].
Alternatives [FH92]. **applications** [Hin87].
approach [Jef99]. **Assembly** [Gri94].
Automatically [Slo95].

Directed [Gud92, Nil90a, Nil90b, OWG93, WG83b].
disparate [Hin87]. **does** [Gri94]. **Driven** [Chr89]. **Dynamic** [GT93].

Emacs [Mit84]. **Evaluation**

[Gri82, Slo95, WG83b, Tra10]. **Execution** [JG94]. **Experiences** [Tra10]. **exploratory** [Jef99]. **expression** [Tra10]. **Expressions** [Gri82, WG83a]. **extension** [Hin87].

Fe [USE94]. **Federal** [BSK87]. **First** [Wal89]. **First-class** [Wal89]. **Framework** [JG94].

Garbage [FH92]. **Generated** [Slo95]. **Generators** [GHK81, Gri88, WG83b]. **Germany** [BSK87]. **Glimpse** [JM98]. **Goal** [Gud92, Nil90a, WG83b, Nil90b, OWG93]. **Goal-Directed** [Gud92, Nil90a, WG83b, Nil90b, OWG93]. **Graphics** [GJT97, GJT98, Jef94].

Handbook [Chr96]. **Hashing** [GT93]. **held** [BSK87]. **High** [Nil90a, USE94, FH83]. **High-level** [Nil90a, FH83]. **History** [HOP93, GG93]. **HOPL** [HOP93]. **HOPL-II** [HOP93]. **Human** [BSK87]. **Human-computer** [BSK87]. **humanists** [Cor90]. **hybrid** [Gri85].

Icon

[Gri89, Shi96, Chr96, Cor90, FH92, GHK79, Gri80, GHK81, Gri82, GG83, Gri83, GG86, GG90, Gri90, GT93, GG93, Gri94, GJT97, GG97, GJT98, Han80, Han93, JG94, Jef94, JM98, LC86, Mit84, Nil90a, OG87, OWG93, PTTA99, Wal89, WG92, WG83a, WG83b]. **Icon3** [Tra10]. **Icon3-like** [Tra10]. **IFIP** [BSK87]. **II** [HOP93]. **Implementation** [GG86, GT93, PTTA99, WG83b, OWG93]. **Implementing** [Gri83]. **integrating** [Hin87]. **Integration** [LC86]. **INTERACT** [BSK87]. **Interaction** [BSK87]. **interpreter** [OG87]. **Interpreters** [Wex87]. **Interpretive** [Wex87]. **introduction** [Han93].

Java [PTTA99]. **Java-Based** [PTTA99].

Jcon [PTTA99]. **June** [Wex87].

Language [Chr96, GG83, GG86, GO88, Gri89, GG90, Gri90, Gud92, Han80, JM98, WG92, WLL98, FH83, GHK79, GG93, GG97, Hin87, OG87, OWG93, Shi96, Gri94]. **Languages** [HOP93, USE94]. **Level** [USE94, FH83, Nil90a]. **like** [Tra10]. **Logicon** [LC86].

Management [Han80]. **Manipulating** [GO88]. **Manipulation** [WLL98]. **mappings** [Gri80]. **Matching** [Gri83, Nil90b]. **Message** [Chr89]. **Mexico** [USE94]. **Minnesota** [Wex87]. **Monitoring** [JG94, Jef99].

numerical [Gri94].

object [Hin87]. **October** [USE94]. **operational** [OWG93]. **Operations** [GN83]. **Optimizing** [WG92]. **oriented** [Hin87]. **overview** [GHK79].

Pattern [Gri83, Nil90b]. **patterns** [Wal89]. **Paul** [Wex87]. **Icon** [Gri85]. **Portable** [Han80]. **Preprints** [HOP93]. **procedural** [OWG93]. **Proceedings** [USE94, Wex87, BSK87]. **Processing** [Nil90a, Gri94]. **Program** [Jef99]. **Programmer** [GN83]. **Programmer-Defined** [GN83]. **Programming** [HOP93, Chr96, GG83, GG86, Gri88, GO88, Gri89, GG90, Gri90, Gri94, GJT97, Han80, Jef94, JMPP04, WG92, Cor90, FH83, GHK79, GG93, GG97, GJT98, OG87, Shi96]. **Prolog** [LC86].

Rebus [Gri85]. **recursive** [OG87]. **relationship** [Chr89]. **Republic** [BSK87]. **Required** [Gri94]. **Rest** [JM98]. **Result** [WG83c].

Santa [USE94]. **Scanning** [Gri90]. **Second** [BSK87]. **Semantics** [Gud92, OWG93]. **September** [BSK87]. **Seque** [GO88]. **Sequences** [GO88, WG83c, Nil90b]. **Sets** [GT93, Gri80]. **SIGPLAN** [HOP93, HOP93, Wex87]. **SNOBOL4** [Gri85, Gri83]. **SNOBOL4/Icon** [Gri85]. **Some** [Gri94]. **St.** [Wex87]. **Storage** [Han80]. **stream** [Nil90b]. **String** [Gri90, Gri94]. **structure** [Gri94]. **Structures** [Gri89]. **Stuttgart** [BSK87]. **subsystem** [Mit84]. **supports** [Nil90b]. **Symposium** [USE94, Wex87]. **System** [Han80, Tra10].

Tables [GT93]. **Techniques** [Wex87]. **Text** [WLL98]. **type** [Nil90b].

unbounded [Nil90b]. **Unicon** [JMPP04]. **University** [BSK87]. **UNIX** [Mit84]. **USA** [USE94]. **use** [Gri80].

values [Nil90b]. **Version** [Jef94]. **Very** [USE94]. **VHILL** [USE94]. **visualization** [Jef99].

References

Bullinger:1987:HII

- [BSK87] H.-J. Bullinger, B. Shackel, and K. Kornwachs, editors. *Human-computer Interaction — INTERACT '87: proceedings of the Second IFIP Conference on Human-Computer Interaction, held at the University of Stuttgart, Federal Republic of Germany, 1–4 September, 1987*. North-Holland, Amsterdam, The Netherlands, 1987. ISBN 0-444-70304-7. LCCN QA76.9.S88I325 1987.

Christopher:1989:MDC

- [Chr89] Thomas W. Christopher. Message driven computing and its relationship to actors. *ACM SIGPLAN Notices*, 24(4):76–78, April 1989. CODEN SINODQ. ISSN 0362-1340 (print), 1523-2867 (print), 1558-1160 (electronic). URL <http://www.acm.org:80/pubs/citations/proceedings/plan/67386/p76-christopher/>.

Christopher:1996:IPL

- [Chr96] Thomas W. Christopher. *Icon Programming Language Handbook*. (none), (none), 1996. ISBN (none). 226 pp. LCCN (none). URL <http://tools-of-computing.com/IconHandbook/>.

Corre:1990:IPH

- [Cor90] Alan D. Corre. *Icon programming for humanists*. Prentice-Hall, Englewood Cliffs, NJ 07632, USA, 1990. ISBN 0-13-450180-2. xiv + 157 pp. LCCN QA76.73.I19 C67 199.

Fraser:1983:HLP

- [FH83] C. W. Fraser and D. R. Hanson. A high-level programming and command language. *ACM SIGPLAN Notices*, 18(6):212–219, June 1983. CODEN SINODQ. ISSN 0362-1340 (print), 1523-2867 (print), 1558-1160 (electronic).

Fernandez:1992:GCA

- [FH92] Mary F. Fernandez and David R. Hanson. Garbage collection alternatives for Icon. *Software—Practice and Experience*, 22(8):659–672, August 1992. CODEN SPEXBL. ISSN

- 0038-0644 (print), 1097-024X (electronic).
- Griswold:1983:IPL**
- [GG83] Ralph E. Griswold and Madge T. Griswold. *The Icon Programming Language*. Prentice-Hall, Englewood Cliffs, NJ 07632, USA, 1983. ISBN 0-13-449777-5. xviii + 313 pp. LCCN QA76.73.I19 G74 1983.
- Griswold:1986:IIP**
- [GG86] Ralph E. Griswold and Madge T. Griswold. *The Implementation of the Icon Programming Language*. Princeton University Press, Princeton, NJ, USA, 1986. ISBN 0-691-08431-9. x + 336 pp. LCCN QA76.73.I19 G76 1986. US\$39.50. URL <http://www.cs.arizona.edu/icon/ibsale.htm>.
- Griswold:1990:IPL**
- [GG90] Ralph E. Griswold and Madge T. Griswold. *The Icon Programming Language*. Prentice-Hall, Englewood Cliffs, NJ 07632, USA, second edition, 1990. ISBN 0-13-447889-4. xv + 367 pp. LCCN QA76.73.I19 G74 1990.
- Griswold:1993:HIP**
- [GG93] Ralph E. Griswold and Madge T. Griswold. History of the Icon programming language. *ACM SIGPLAN Notices*, 28(3):53–68, March 1993. CODEN SINODQ. ISSN 0362-1340 (print), 1523-2867 (print), 1558-1160 (electronic). URL <http://www.acm.org:80/pubs/citations/proceedings/plan/154766/p53-griswold/>.
- Griswold:1997:IPL**
- [GG97] Ralph E. Griswold and Madge T. Griswold. *The Icon programming language*. Peer-to-Peer Communications, San Jose, CA, USA, third edition, 1997. ISBN 1-57398-001-3. xx + 386 pp. LCCN QA76.73.I19G74 1997. US\$34.95. URL <http://www.cs.arizona.edu/icon/lb3.htm>.
- Griswold:1979:IPL**
- [GHK79] R. E. Griswold, D. R. Hanson, and J. T. Korb. The Icon programming language: an overview. *ACM SIGPLAN Notices*, 14(4):18–31, April 1979. CODEN SINODQ. ISSN 0362-1340 (print), 1523-2867 (print), 1558-1160 (electronic).
- Griswold:1981:GI**
- [GHK81] Ralph E. Griswold, David R. Hanson, and John T. Korb. Generators in Icon. *ACM Transactions on Programming Languages and Systems*, 3(2):144–161, April 1981. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).
- Griswold:1997:GPI**
- [GJT97] Ralph E. Griswold, Clinton L. Jeffery, and Gregg M. Townsend. *Graphics Programming in Icon*. Peer-to-Peer Communications, San Jose, CA, USA, 1997. ISBN 1-57398-009-9. ??? pp.
- Griswold:1998:GPI**
- [GJT98] Ralph E. Griswold, Clinton L. Jeffery, and Gregg M. Townsend. *Graphics programming in Icon*. Peer-to-Peer Communications, San Jose, CA, USA, 1998. ISBN T385.G765

1998. xiv + 504 pp. LCCN 1-57398-009-9.
- Griswold:1983:PCO**
- [GN83] R. E. Griswold and Michael Novak. Programmer-defined control operations. *The Computer Journal*, 26(2):175–183, May 1983. CODEN CMPJA6. ISSN 0010-4620 (print), 1460-2067 (electronic).
- Griswold:1988:SPL**
- [GO88] Ralph E. Griswold and Janalee O’Bagy. Seque: a programming language for manipulating sequences. *Computer Languages*, 13(1):13–22, ???? 1988. CODEN COLADA. ISSN 0096-0551.
- Griswold:1980:UCS**
- [Gri80] R. E. Griswold. The use of character sets and character mappings in Icon. *The Computer Journal*, 23(2):107–114, May 1980. CODEN CMPJA6. ISSN 0010-4620 (print), 1460-2067 (electronic).
- Griswold:1982:EEI**
- [Gri82] Ralph E. Griswold. The evaluation of expressions in Icon. *ACM Transactions on Programming Languages and Systems*, 4(4):563–584, October 1982. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).
- Griswold:1983:ISP**
- [Gri83] Ralph E. Griswold. Implementing Snobol4 pattern matching in Icon. *Computer Languages*, 8(2):77–92, ???? 1983. CODEN COLADA. ISSN 0096-0551.
- Griswold:1985:RSI**
- [Gri85] R. E. Griswold. Rebus — a SNOBOL4/Icon hybrid. *ACM SIGPLAN Notices*, 20(2):7–16, February 1985. CODEN SINODQ. ISSN 0362-1340 (print), 1523-2867 (print), 1558-1160 (electronic).
- Griswold:1988:PG**
- [Gri88] R. E. Griswold. Programming with generators. *The Computer Journal*, 31(3):220–228, June 1988. CODEN CMPJA6. ISSN 0010-4620 (print), 1460-2067 (electronic).
- Griswold:1989:DSI**
- [Gri89] Ralph E. Griswold. Data structures in the icon programming language. *Computing Systems*, 2(4):339–365, Fall 1989. CODEN CM-SYE2. ISSN 0895-6340.
- Griswold:1990:SSI**
- [Gri90] R. E. Griswold. String scanning in the Icon programming language. *The Computer Journal*, 33(2):98–107, April 1990. CODEN CMPJA6. ISSN 0010-4620 (print), 1460-2067 (electronic).
- Griswold:1994:SAR**
- [Gri94] Ralph E. Griswold. Some assembly required: The Icon Programming Language: Icon does string and structure processing and numerical computation. *Byte Magazine*, 19(5):193–??, May 1994. CODEN BYT-EDJ. ISSN 0360-5280.
- Griswold:1993:DID**
- [GT93] William G. Griswold and Gregg M. Townsend. The design and implementation of dynamic hashing for

- sets and tables in Icon. *Software—Practice and Experience*, 23(4):351–367, April 1993. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).
- Gudeman:1992:DSG**
- [Gud92] David A. Gudeman. Denotational semantics of a goal-directed language. *ACM Transactions on Programming Languages and Systems*, 14(1):107–125, January 1992. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic). URL <http://www.acm.org/pubs/toc/Abstracts/0164-0925/104659.html>.
- Hanson:1980:PSM**
- [Han80] David R. Hanson. A portable storage management system for the Icon programming language. *Software—Practice and Experience*, 10(6):489–500, June 1980. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).
- Hanson:1993:BII**
- [Han93] David R. Hanson. A brief introduction to Icon. *ACM SIGPLAN Notices*, 28(3):359–360, March 1993. CODEN SINODQ. ISSN 0362-1340 (print), 1523-2867 (print), 1558-1160 (electronic). URL <http://www.acm.org:80/pubs/citations/proceedings/plan/154766/p359-hanson/>.
- Hinckley:1987:OEE**
- [Hin87] K. Hinckley. An object oriented extension language for integrating disparate applications. In Bullinger et al. [BSK87], pages 529–533. ISBN 0-444-70304-7. LCCN QA76.9.S88I325 1987.
- ACM:1993:ASH**
- [HOP93] ACM SIGPLAN HOPL-II. 2nd ACM SIGPLAN History of Programming Languages Conference (Preprints), volume 28(3). ACM Press, New York, NY, USA, March 1993. CODEN SINODQ. ISBN ????. ISSN 0362-1340 (print), 1523-2867 (print), 1558-1160 (electronic). LCCN ????
- Jeffery:1994:GPI**
- [Jef94] Clinton L. Jeffery. Graphics programming in Icon version 9. In USENIX Association [USE94], pages 157–168. ISBN 1-880446-65-0. LCCN QA76.7 .U74 1994.
- Jeffery:1999:PMV**
- [Jef99] Clinton L. Jeffery. *Program monitoring and visualization: an exploratory approach*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1999. ISBN 0-387-98644-8. xiv + 209 pp. LCCN QA76.65.J45 1999.
- Jeffery:1994:FEM**
- [JG94] Clinton L. Jeffery and Ralph E. Griswold. A framework for execution monitoring in Icon. *Software—Practice and Experience*, 24(11):1025–1049, November 1994. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).
- Jeffery:1998:GIL**
- [JM98] Clinton Jeffery and Shamim Mohamed. A glimpse of Icon: A language for the rest of us. *Linux*

- Journal*, 51:??, July 1998. CODEN LIJOFX. ISSN 1075-3583 (print), 1938-3827 (electronic).
- Jeffery:2004:PU**
- [JMPPO4] Clinton L. Jeffery, Shamim Mohamed, Ray Pereda, and Robert Parlett. *Programming with Unicon*. ????, ????, 2004. ISBN ????. xiii + 371 pp. LCCN ???? URL <http://unicon.sourceforge.net/book/ub.pdf>.
- Lapalme:1986:LIP**
- [LC86] Guy Lapalme and Suzanne Chapleau. Logicon: An integration of Prolog into Icon. *Software—Practice and Experience*, 16(10):925–944, October 1986. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).
- Mitchell:1984:ISU**
- [Mit84] William H. Mitchell. An Icon subsystem for UNIX emacs. Technical report TR 84-8, Dept. of Computer Science, The University of Arizona, Tucson, AZ, USA, 1984. 17 pp.
- Nilsen:1990:HLG**
- [Nil90a] Kelvin Nilsen. High-level goal-directed concurrent processing in Icon. *Software—Practice and Experience*, 20(12):1273–1290, December 1990. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).
- Nilsen:1990:SDT**
- [Nil90b] Kelvin Nilsen. A stream data type that supports goal-directed pattern matching on unbounded sequences of values. *Computer Languages*, 15(1):41–54, ???? 1990. CODEN COLADA. ISSN 0096-0551.
- OBagy:1987:RII**
- [OG87] J. O’Bagy and R. E. Griswold. A recursive interpreter for the Icon programming language. *ACM SIGPLAN Notices*, 22(7):138–149, July 1987. CODEN SINODQ. ISSN 0362-1340 (print), 1523-2867 (print), 1558-1160 (electronic). URL http://www.acm.org:80/pubs/citations/proceedings/plan/29650/p138-o_bagy/.
- OBagy:1993:OSI**
- [OWG93] Janalee O’Bagy, Kenneth Walker, and Ralph E. Griswold. An operational semantics for Icon: implementation of a procedural goal-directed language. *Computer Languages*, 18(4):217–239, ???? 1993. CODEN COLADA. ISSN 0096-0551.
- Proebsting:1999:JJB**
- [PTTA99] Todd Proebsting, Gregg Townsend, Denise Todd, and Bob Alexander. Jcon: A Java-based Icon implementation. Version 2 of Jcon is an essentially complete implementation of Icon, including graphics and large integers. A few minor features are missing — mostly things like chdir() that cannot be done in Java., 1999. URL <http://www.cs.arizona.edu/icon/jcon/>.
- Shipman:1996:IPL**
- [Shi96] John Shipman. The icon programming language. This tutorial on Icon is available as a World-Wide Web document., April 11, 1996. URL <http://www.nmt.edu/tcc/help/lang/icon/>.

- Sloane:1995:EAG**
- [Slo95] Anthony M. Sloane. An evaluation of an automatically generated compiler. *ACM Transactions on Programming Languages and Systems*, 17(5):691–703, September 1995. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic). URL <http://www.acm.org/pubs/toc/Abstracts/0164-0925/213980.html>.
- Tratt:2010:EIL**
- [Tra10] Laurence Tratt. Experiences with an Icon3-like expression evaluation system. *ACM SIGPLAN Notices*, 45(12):73–80, December 2010. CODEN SINODQ. ISSN 0362-1340 (print), 1523-2867 (print), 1558-1160 (electronic).
- USENIX:1994:PUS**
- [USE94] USENIX Association, editor. *Proceedings of the USENIX Symposium on Very High Level Languages (VHLL): October 26–28, 1994, Santa Fe, New Mexico, USA*. USENIX, Berkeley, CA, USA, 1994. ISBN 1-880446-65-0. LCCN QA76.7.U74 1994.
- Walker:1989:FPI**
- [Wal89] Kenneth W. Walker. First-class patterns for Icon. *Computer Languages*, 14(3):153–163, ??? 1989. CODEN COLADA. ISSN 0096-0551.
- Wexelblat:1987:IIT**
- [Wex87] Richard L. Wexelblat, editor. *Proceedings of the SIGPLAN '87 Symposium on Interpreters and Interpretive Techniques, St. Paul, Minnesota, June 24–26, 1987*. ACM Press, New York, NY, USA, 1987. ISBN 0-89791-235-7. LCCN QA76.7.S54 v.22:7. US\$23.00. SIGPLAN Notices, v. 22, no. 7 (July 1987).
- Wampler:1983:CI**
- [WG83a] S. B. Wampler and R. E. Griswold. Co-expressions in Icon. *The Computer Journal*, 26(1):72–78, February 1983. CODEN CMPJA6. ISSN 0010-4620 (print), 1460-2067 (electronic).
- Wampler:1983:IGG**
- [WG83b] Stephen B. Wampler and Ralph E. Griswold. The implementation of generators and goal-directed evaluation in Icon. *Software—Practice and Experience*, 13(6):495–518, June 1983. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).
- Wampler:1983:RS**
- [WG83c] Stephen B. Wampler and Ralph E. Griswold. Result sequences. *Computer Languages*, 8(1):1–14, ??? 1983. CODEN COLADA. ISSN 0096-0551.
- Walker:1992:OCI**
- [WG92] Kenneth Walker and Ralph E. Griswold. An optimizing compiler for the Icon programming language. *Software—Practice and Experience*, 22(8):637–657, August 1992. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).
- Wong:1998:CCT**
- [WLL98] Kam-Fai Wong, Vincent Y. Lum, and Wai-Ip Lam. Chicon — A Chinese text manipulation language. *Software—Practice and Experience*, 28(7):681–701, July 1998.

CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).
URL <http://www3.interscience.wiley.com/cgi-bin/abstract?ID=1804>; <http://www3.interscience.wiley.com/cgi-bin/fulltext?ID=1804&PLACEBO=IE.pdf>.