

References

- [Adobe85] Adobe Systems Inc. "PostScript Language Reference Manual", Addison-Wesley, 1985
- [Aonuma88] Anonuma, Tatsuo. "An Interactive Simulation Modelling System: DYNAGRAPH for Multi-Period Planning on an APL Spreadsheet", APL88, 10-18, 1988
- [BABH86] Beynon, W M, Angier, D, Bissell, T, Hung, S. "DoNaLD: a Line-Drawing System based on Definitive Principles", University of Warwick Computer Science Research Report 86, October 1986
- [Backus78] Backus, J. "Can Programming be Liberated from the von Neumann Style?", Communication of the ACM, Vol. 21, No. 8, 1978, pp. 613-641
- [Baldwin87] Baldwin, D. "Why We Can't Program Multiprocessors the Way We're Trying to Do It Now", Technical Report 224, Department of Computer Science, University of Rochester, August 1987
- [BBY92] Beynon, W M, Bridge, I, Yung, Y P. "Agent-oriented Modelling for a Vehicle Cruise Controller", in Proc ASME conference on Engineering Systems Design and Analysis, Turkey, June-July 1992, pp. 159-165
- [BCMZ88] Brown, D W, Carson, C D, Montgomery, W A, Zislis, P M. "Software Specification and Prototyping Technologies", AT&T Technical Journal, July/August 1988, pp.33-45
- [BCRY90] Beynon, M, Cartwright, A J, Russ, S B, Yung, Y P. "Programming Paradigms and the Semantics of Geometric Symbols, in Proc. W/S "Visual Interfaces to Geometry" in conjunction with CHI'90, Seattle, April 1990

- [BD86] Borning, A, Duisberg, R. "Constraint-Based Tools for Building User Interfaces", ACM Transactions on Graphics, Vol. 5, No. 4, Oct 1986, pp 345-374
- [BDMN79] Birtwistle, G M, Dahl, O J, Myrhaug, B, Nygaard, K. "Simula Begin", Chartwell-Bratt Ltd., 1979
- [Beynon85] Beynon, W M. "Definitive Notations for Interaction", Proc. BCS Conference "People and Computers: Designing the Interface", ed. Johnson and Cook, CUP, 1985
- [Beynon86a] Beynon, W M. "ARCA: a Notation for Displaying and Manipulating Combinatorial Diagrams", University of Warwick Computer Science Research Report 78, July 1986
- [Beynon86b] Beynon, W M. "The LSD Notation for Communicating Systems", University of Warwick Computer Science Research Report 87, November 1986
- [Beynon88a] Beynon, W M. "Definitive Principles for Interactive Graphics", NATO ASI Series F: 140, 1988
- [Beynon88b] Beynon, W M. "Definitive Programming for Parallelism", University of Warwick Computer Science Research Report 132, October 1988
- [Beynon89] Beynon, W M. "Evaluating Definitive Principles for Interaction in Graphics", in Proc. of CG International '89, "New Advances in Computer Graphics", Springer-Verlay, 1989
- [Beynon92] Beynon, W M. "Programming Principles for the Semantics of the Semantics of Programs", Research Report 205, Computer Science Department, University of Warwick, 1992
- [BF85] Burden, R L, Faires, J D. "Numerical Analysis", third edition, PWS Publishers, 1985
- [BKKMSZ86] Bobrow, D, Kahn, K, Kiczales, G, Masiuter, L, Stefik, M, Zdybel, F. "Common Loops: Merging Lisp and Object Oriented Programming", in Proc. OOPSLA'86. ACM SIGPLAN 21, 11 (Nov.), 1986, pp. 17-29
- [BN87] Beynon, W M, Norris, M T. "Comparison of SDL and LSD", in Proc SDL'87, ed R Saracco, P A J Tilanus, North-Holland 1987, pp. 201-209
- [BNRSYY89] Beynon, W M, Norris, M T, Russ, S B, Slade, M D, Yung, Y P, Yung, Y W. "Software Construction Using Definitions: an Illustrative Example", University of Warwick Computer Science Research Report #147

- [BNS88] Beynon, W M, Norris, M T, Slade, M D. "Definitions for Modelling and Simulating Concurrent Systems", Proceedings IASTED Conference ASM 1988, Acta Press, 1988
- [Bobrow85] Bobrow, D G. "If Prolog is the Answer, What is the Question? Or What It Takes to Support AI Programming Paradigms", IEEE Transactions on Software Engineering, Vol SE-11, No. 11, Nov. 1985, pp. 1401-1408
- [Booch91] Booch, G. "Object-Oriented Design with Applications", The Benjamin/Cummings Publishing Company, Inc, 1991
- [BR89] Beynon, W M, Russ, S B. "The Development and Use of Variables in Mathematics and Computer Science", in Proc. IMA conference "The Mathematical Revolution Inspired by Computing", April 1989
- [BR92] Beynon, W M, Russ, S B. "The Interpretation of States: a New Foundation for Computation?", Research Report 207, Computer Science Department, University of Warwick, 1992
- [Brooks86] Brooks, F P. "No Silver Bullet: Essence and Accidents of Software Engineering", Computer, Vol. 20, No. 4, 1987, pp. 10-19
- [Brooks91] Brooks, K P. "Lilac: A Two-View Document Editor", Computer, 7-19, June 1990
- [BRSYY89] Beynon, W M, Russ, S B, Slade, M D, Yung, Y P, Yung, Y W. "Definitive Principles and the Specification of Software", University of Warwick Computer Science Research Report #146
- [BRY90] Beynon, W M, Russ, S B, Yung, Y P. "Programming as Modelling: New Concepts and Techniques", in Proc ISLIP'90, Computing & Info Sci Dept, Queen's University, Canada 1990
- [BS81] Bobrow, D G, Stefik, M. "The Loops Manual", Technical Report KB-VLSI-81-13. Knowledge Systems Area, Xerox Palo Alto Research Center, 1981
- [BSY88] Beynon, W M, Slade, M D, Yung, Y W. "Parallel Computation in Definitive Models", in Proc CONPAR'88, British Computer Society Workshop Series, CUP 1989, pp. 359-367

- [BSY90] Beynon, W M, Slade, M D, Yung, S. "Protocol Specification in Concurrent Systems Software Development", University of Warwick Computer Science Research Report #163
- [BY90] Beynon, W M, Yung, Y P. "Definitive Interfaces as a Visualisation Mechanism", in Proc. Graphics Interface '90, Canadian Information Processing Society, 1990, pp. 285-292
- [BY92] Beynon, M, Yung, Y P. "Agent-oriented Modelling for Discrete-Event Systems", in Proc IEE Colloquium "Discrete-Event Dynamic Systems", June 1992
- [BYAB91] Beynon, W M, Yung Y P, Atkinson, M D, Bird, S R. "Programming Principles for Visualization in Mathematical Research", in Proc. Computgraphics'91, Sesimbra, Portugal, Sept 1991
- [CB92] Cartwright, A J, Beynon, W M. "Enhancing Interaction in Computer-Aided Conceptual Design", in Proc ICMA '92, Hong Kong, August 1992
- [CFV88] Cugini, U, Folini, F, Vicini, I. "A Procedural System for the Definition and Storage of Technical Drawings in Parametric Form", in Eurographics '88, North-Holland, 1988, pp. 183-196
- [Chan89] Chan, S. "Enhancing the DoNaLD Line Drawing System", final year project report, Department of Computer Science, University of Warwick, 1989
- [Clocksin87] Clocksin, W F. "Principles of the DelPhi Parallel Inference Machine", The Computer Journal, Vol. 30, No. 5, 1987, pp. 386-392
- [Cox84] Cox, B J. "Message/Object Programming: An Evolutionary Change in Programming Technology", IEEE Software, vol. 1, no. 1, January 1984, pp. 50-69
- [Cox86] Cox, B J. "Object-Oriented Programming: An Evolutionary Approach", Addison-Wesley, Reading (Mass.), 1986
- [CP87] Chan, W T, Paulson B C. "Exploratory Design Using Constraints", AI EDAM, 1987 1(1), pp. 59-71
- [CW89] Chmilar, M, Wyvill, B. "A Software Architecture for Integrated Modelling and Animation", in "New Advances in Computer Graphics", Proc. of CG International'89, Springer-Verleg, 1989, pp. 257-276

- [Deutsch89] Deutsch, M S. "Enhancing Testability with Scenario-Oriented Engineering", in Proc 6th Int Conf on Testing Computer Software: Managing the Testing Process, May 1989
- [DN66] Dahl, O J, Nygaard, K. "SIMULA—an Algol-based Simulation Language", Communications of the ACM. 9. 1966, pp. 671-678
- [DT88] Danforth, S, Tomlinson, C. "Type Theories and Object-Oriented Programming", ACM Computing Surveys, Vol. 20, No. 1, March 1988, pp. 29-72
- [FB83] Fischer, G, Boecker, H, D. "The Nature of Design Processes and How Computer Systems Can Support Them", in Integrated Interactive Computing Systems, ed. P Degano and E Sandewall, North Holland, 1983, pp. 73-86
- [Foley87] Foley, J. "Models and Tools for the Designers of User-Computer Interfaces", Teport GWU-IIST-87-03, Department of EE & CS, George Washington University, March 1987
- [FP86] Fuller, N, Prusinkiewicz, P. "L.E.G.O. – An Interactive Graphics System for Teaching Geometry and Computer Graphics", in Proc CIPS Edmonton'86, pp. 75-84
- [FP88] Fuller, N, Prusinkiewicz, P. "Geometric Modelling with Euclidean Constructions", in "New Trends in Computer Graphics", Springer-Verlag, 1988, pp. 379-391
- [FP89] Fuller, N, Prusinkiewicz, P. "Applications of Euclidean constructions to computer graphics", The Visual Computer (1989) 5, Springer-Verlag, 1989, pp. 63-67
- [GHT84] Glaser, H, Hankin, C, Till, D. "Principles of Functional Programming", Prentice-Hall International, 1984
- [GO90] Gilly, D, O'Reilly, T. "The Definitive Guides to the X Window System", O'Reilly & Associates Inc., 1990
- [GR83] Goldberg, A, Robson, D. "Smalltalk-80: The Language and Its Implementation", Addison Wesley, 1983
- [Gray89] Gray, P D. "Interactive User Interface Design: the Chimera UIMS", Digest No: 1989/135, Colloquium on "User Interface Management Systems", Computing and Control Division, IEE, 1989, pp. 6/1-6/5
- [Green89] Green, T R G. "Cognitive Dimensions of Notations", in Proc HCI'89, 443-460, 1989

- [Harel92] Harel, D. "Biting the Silver Bullet", *Computer*, Jan. 1992, pp. 8-20
- [Harland88] Harland, D M. "REKURSIV Object-Oriented Computer Architecture", Ellis Horwood Ltd, August 1988
- [Harper86] Harper, R. "Introduction to Standard ML", LFCS Report ECS-LFCS-86-14 (also published as CSR-220-86), LFCS, Department of Computer Science, University of Edinburgh, Nov. 1986
- [Hewett89] Hewett, Thomas T. "Towards a Rapid Prototyping Environment for Interface Design: Desirable Features Suggested by The Electronic Spreadsheet", in *Proc HCI'89*, 305-314, 1989
- [HH89] Hartson, H R, Hix, D. "Human-Computer Interface Development: Concepts and Systems for Its Management", *ACM Computer Surveys*, Vol. 21, No. 1, March 1989, pp. 5-92
- [Hill92] Hill, R D. "The Abstraction-Link-View Paradigm: Using Constraints to Connect User Interfaces to Applications", in *Proc CHI'92*, 1992, pp. 335-342
- [HS78] Hillis, W, Steele, G. "Data Parallel Algorithms", *Communications of the ACM*, August 1978 (21:8), pp. 666-677
- [Hudak89] Hudak, P. "Conception, Evolution, and Application of Functional Programming Languages", *ACM Computing Surveys*, Vol. 21, No. 3, September 1989, pp. 359-411
- [Hui90] Hui, F. "Translation of Definitive Notation to C Code", final year project report, Department of Computer Science, University of Warwick, 1990
- [Iannucci88] Iannucci, R A. "A Dataflow / von Neumann Hybrid Architecture", Tech. Report MIT/LCS/TR-418, Laboratory for Computer Science, MIT, 1988
- [ITT67] "APT part-programming", ITT Research Institute, McGraw-Hill, 1967
- [Iu89] Iu, K F. "An Interface for DoNaLD in a Windowing Environment", final year project report, Department of Computer Science, University of Warwick, 1989
- [Jackson83] Jackson, M. "System Development", Prentice-Hall International, 1983
- [Jackson88] Jackson, Mary. "Advanced Spreadsheet Modelling with Lotus 1-2-3", John Wiley & Sons, 1988.

- [JB88] Johnson, Jeff; Beach, Richard J. "Styles in Document Editing Systems", *Computer*, 32-43, January 1988
- [Jeet87] Jeet, E J. "A Relationship-Based Interactive Graphical Diagram Editor", PhD thesis, Department of Computer Science, University of Kent, Nov. 1987
- [Jorrand87] Jorrand, P. "Design and Implementation of a Parallel Inference Machine for First Order Logic: An Overview", *Proc. PARLE 87*, volume 1: Parallel Architectures, 1987, pp. 434-445
- [Kay84] Kay, Alan. "Computer Software", in *Scientific American*, Vol 251, No 3, 41-47, Sept 1984
- [KKW87] Kunz, J C, Kehler, T P, Williams, M D. "Applications Development Using a Hybrid AI Development System", in *Artificial Intelligence Programming Environments*, ed. Robert Hawley, Ellis Horwood Limited, 1987. pp. 177-196
- [Knuth84] Knuth, D E. "The TeXbook", Addison-Wesley, 1984
- [Kokol88] Kokol, Peter. "Spreadsheet Language Level: How High Is IT?", *SIGPLAN Notices*, vol 23, No 6, 121-134, June 1988
- [Landin66] Landin, P J. "The Next 700 Programming Languages", *Communications of the ACM*, Vol. 9, No. 3, March 1966, pp. 157-166
- [Lewis87] Lewis, C. "Using the NoPumpG Primitive", Department of Computer Science and Institute of Cognitive Science, University of Boulder, 1987
- [Lieberman86] Lieberman, H. "Using Prototypical Objects to Implement Shared Behavior in Object-Oriented Systems", *Proc First ACM Conf on Object-Oriented Programming Systems, Languages and Applications*, *SIGPLAN Notices*, vol 21, no 9, 1986, pp. 214-223
- [LP86] Lang, K, Perlmutter, B. "OakLisp: An Object-Oriented Scheme with First Class Types", *OOPSLA 86. ACM SIGPLAN 21*, 11 (Nov.), 1986, pp. 30-37
- [Lucassen87] Lucassen, J M. "Types and Effects, Towards the Integration of Functional and Imperative Programming", PhD thesis, Laboratory for Computer Science, MIT, Aug. 1987
- [LV91] Laffra, C, Van Den Bos, J. "Constraints in Concurrent Object-Oriented Environments", in *OOPS Messenger Vol 2 No. 2*, April 1991, pp.64-67

- [Martin87] Martin, M M. "Tutorial Introduction to ww for C", Rutherford Appleton Laboratory, 1987
- [MAS88] McCormack, J, Asente, P, Swick, R R. "X Toolkit Intrinsic - C Language Interface", Digital Equipment Corp., March 1988
- [MBF89] Maloney, J H, Borning, A, Freeman-Benson, B N. "Constraint Technology for User Interface Construction in ThingLab II", in Proc. OOPSLA '89, Oct 1989, pp. 381-388
- [Meads87] Meads, J. "The Standards Factor", SIGCHI Bull., Vol. 19, No. 1, July 1987, pp. 34-35
- [Meyer88] Meyer, B. "Object-Oriented Software Construction", Prentice-Hall International, 1988
- [MGJ84] McCrosky, C D, Glasgow, J I, Jenkins, M A. "Nial: A Candidate Language for Fifth Generation Computer Systems", Technical Report 84-159, Department of Computing and Information Science, Queen's University at Kingston, Ontario, Canada
- [Michael89] Michael, D. "Trident - Translator of Definitive Notations", final year project report, Department of Computer Science, University of Warwick, 1989
- [Musciano88] Musciano, C. "Tooltool User's Guide - Version 2.0", Advanced Technology Department, Harris Corporation, 1988
- [Myers89] Myers, B A. "The State of the Art in Visual Programming and Program Visualization", in Graphics Tools for Software Engineers, 3-26, 1989
- [Myers90] Myers, B A. "A New Model for Handling Input", ACM Transactions on Information Systems, Vol 8, No. 3, July 1990, pp. 289-320
- [Naur63] Naur, P. Ed. "The Revised Report on the Algorithmic Language ALGOL 60", Communication of the ACM, Jan 1963, pp. 1-17
- [Nelson90] Nelson, M L. "An Introduction to Object-Oriented Programming", Naval Postgraduate School, Monterey, CA, Technical Report No 52-90-024, Apr 1990
- [Nelson91] Nelson, M L. "An Object-Oriented Tower of Babel", OOPS Messenger, Vol. 2, No. 3, July 1991, pp.3-11

- [Parsons91] Parsons, J. "Enhancement of the DoNaLD Translator", final year project report, Department of Computer Science, University of Warwick, 1991
- [Partridge86] Partridge, D. "Artificial Intelligence: Applications in the Future of Software Engineering", Ellis Horwood, 1986
- [Pemberton92] Pemberton, S. "Programming Aspects of Views, an Open-Architecture Application Environment", in poster presentation, HCI'92, York, Sept 1992
- [PW87] Partridge, D, Wilks, Y. "Does AI Have a Methodology Which is Different from Software Engineering?" *Artificial Intelligence Review* 1 (1), 1987, pp. 111-120
- [PW88] Petre, M, Winder, R. "On Languages, Models and Programming Styles", *The Computer Journal*, Vol 33, No. 2, pp. 193-180
- [Ramsay87] Ramsay, A. "Embedding very high level languages", in *Artificial Intelligence Programming Environments*, ed. Robert Hawley, Ellis Horwood Limited, 1987. pp. 61-78
- [Research87] Research Software Ltd. "Miranda System Manual", 1987
- [SB86] Stefik, M, Bobrow, D G. "Object-Oriented Programming: Themes and Variations", *AI Mag.* 6, 4, 1986, pp. 40-62
- [Sheil83] Sheil, B. "Power Tools for Programmers", *Datamation*, Feb 1983, pp. 131-144
- [Slade89] Slade, M D. "Definitive Parallel Programming", MSc. thesis, Department of Computer Science, University of Warwick, 1989
- [SM88] Myers, B A, Szekely, P A. "A User Interface Toolkit Based on Graphical Objects and Constraints", in *Proc OOPSLA '88*, 1988, pp. 36-45
- [Smillie88] Smillie, K W. "Array Theory and the NIAL Programming Language", *BIT* 28 (1988), pp. 439-449
- [Smith87] Smith, B C. "Two Lessons of Logic", *Comput Intell* 3, 1987, pp. 151-160
- [Snyder87] Snyder, A. "Inheritance and the Development of Encapsulated Software Components", in *Proceedings of the 20th Hawaiian International Conference on Systems Sciences. Software Track*, Western Periodicals, North Hollywood, Calif., 1987, pp. 227-238

- [Sommerville89] Sommerville, I. "Software Engineering", 3rd edition, Addison-Wesley, 1989
- [Sowa87] Sowa, M. "A Method for Speeding up Serial Processing in Dataflow Computers by Means of a Program Counter", *The Computer Journal*, Vol. 30, No. 4, 1987, pp. 289-294
- [Stidwill89] Stidwill, J M. "The CADNO Programming Language", third year project report, Department of Computer Science, University of Warwick, 1989
- [Streitz88] Streitz, N A. "Writing is Rewriting: A Cognitive Framework for Computer-Aided Authoring", in *Proc 4th European Conference on Cognitive Ergonomics*, Cambridge, 1988
- [Stroustrup84] Stroustrup, B. "Data Abstraction in C", *AT&T Bell Laboratories Technical Journal*, vol. 63, no. 8, Part 2, October 1984, pp. 1701-1732
- [Stroustrup86] Stroustrup, B. "The C++ Programming Language", Addison Wesley, 1986
- [Sun84] Sun Microsystems Inc. "Sun Windows Programmers' Guide", Mountain View, Calif., 1984
- [Sun87] Sun Microsystems Inc. "NeWS Manual", Mountain View, Calif., 1987
- [Thimbleby90] Thimbleby, H. "User-Interface Design", Addison-Wesley, 1990
- [Trenouth91] Trenouth, J. "A Survey of Exploratory Software Development", *The Computer Journal*, Vol. 34, No. 2, 1991, pp. 153-163
- [Turner81] Turner, D A. "Recursion Equations as a Programming Language", in "Functional Programming and its Applications", edited by Darlington J, Henderson P and Turner D A, Cambridge University Press, 1981, pp. 1-28
- [Turner83] Turner, D A. "The Future of Programming Languages", Infotech state of the ART report, 1983, pp. 129-135
- [Turner85] Turner, D A. "Miranda: a Non-strict Functional Language With Polymorphic Types", in *Proceedings of the IFIP International Conference on Functional Programming Languages and Computer Architecture*. Springer Verlag Notes in Computer Science - 201, Nancy, France, September 1985.
- [Turner86] Turner, D A. "An Overview of Miranda". *SIGPLAN Notices*, December 1986

- [Ullman82] Ullman, J D. "Principles of Database Systems", Computer Science Press, Rockville Maryland, second edition, 1982
- [van Denneheuvel91] van Denneheuvel, S. "Constraint-solving on database systems: design and implementation of the rule language RL/1", CWI Amsterdam 1991
- [Veen86] Veen, A H. "Dataflow Machine Architecture", ACM Computer Surveys, Vol. 18, No. 4, December 1986.
- [VLM88] Vaucher, J, Lapalme, G, Malenfant, J. "SCOOP: Structured Concurrent Object Oriented Prolog", in Proc. ECOOP'88, August 1988, pp. 191-135
- [Wadge85] Wadge, W W. "VISCID, A Vi-like Screen Editor Written in LUCID", Department of Computer Science, University of Victoria, Canada, June 1985
- [Wegner87] Wegner, P. "Dimensions of Object-Based Language Design", Object-Oriented Programming Systems, Languages and Applications (OOPSLA'87) Conference Proceedings, Oct 1987, special issue of SIGPLAN Notices, Vol 22, No 12, Dec 1987, pp. 168-182
- [Whitefield89] Whitefield, A. "Constructing Appropriate Models of Computer Users: The Case of Engineering Designers", in Cognitive Ergonomics and Human-Computer Interaction, edited by J Long and A Whitefield, Cambridge, 1989, pp. 66-94
- [WP88] Winder, R L, Pun, W W Y. "Towards a Design Method for Object-Oriented Programming", Department of Computer Science Research Note RN/88/1, University College London, Jan. 1988
- [Wyvill75] Wyvill, B. "An Interactive Graphics Language", PhD thesis, University of Bradford, 1975
- [Yung87] Yung, Y W. "EDEN: Evaluator of Definitive Notations", final year undergraduate project report, Department of Computer Science, University of Warwick, 1987
- [Yung88] Yung, Y P. "Design and Implementation of SCOUT - A Definitive Notation for Describing SScreen LayOUT", final year undergraduate project report, Department of Computer Science, University of Warwick, 1988
- [Yung89] Yung, Y W. "EDEN: An Engine for Definitive Notations. Design, Implementation and Evaluation", MSc. thesis, Department of Computer Science, University of Warwick, 1989