

REFERENCES & BIBLIOGRAPHY

- [ACM 65] ACM: Conference on: Programming Languages and Pragmatics -- San Dimas, California, August 1965. Excerpts in: Comm.ACM, vol. 9, no. 6, 1966.
- [ADJ 77] J.A.Goguen, J.W.Thatcher, E.G.Wagner & J.B.Wright: "Initial Algebra Semantics and Continuous Algebra Jour. ACM, vol.24, no.1, pp. 68-95, Jan. 1977.
- [Allen 72] C.D.Allen, D.N.Chapman & C.B.Jones: "A Formal Definition of ALGOL 60", IBM (Hursley) Techn.Rept.No. TR12.105, Hursley, Hants, UK., August 1972.
- [Alber 69] K.Alber, H.Goldmann, P.Lauer, P.Lucas, P.Oliva, R.Stigleitner, K.Walk & G.Zeisel: "Informal Introduction to the Abstract Syntax and Interpretation of PL/I", IBM (Vienna) Techn.Rept.No.TR25.099, Vienna, Austria, June 1969.
- [Backus 59] J.W.Backus: "The Syntax and Semantics of the Proposed International Algebraic Language of the Zürich ACM-GAMM Conference", ICIP Proceedings, Paris 1959, Butterworth's, London, pp.125-132, 1960.
- [Bandat 65] K.Bandat: "Tentative Steps Towards a Formal Definition of the Semantics of PL/I", IBM (Vienna) Techn. Report.No.TR25.065, Vienna, Austria, July 1965.
- [Bekić 70a] H.Bekić: "On the Formal Definition of Programming Languages", (in:) Proceedings of the European ACM Int'l.Comp.Symp.'70, Bonn, Germany, Nov.1970.
- [Bekić 70b] ----- & K.Walk: "Formalization of Storage Properties", in: [Engeler 71]
- [Bekić 71] -----: "Towards a Mathematical Theory of Processes", IBM (Vienna) Techn.Rept.No.TR25.125, Vienna, Austria, Dec.1971.
- [Bekić 74] -----, D.Bjørner, W.Henhapl, C.B.Jones & P.Lucas: "A Formal Definition of a PL/I Subset", IBM (Vienna) Techn.Rept.No.TR25.139, Vienna, Austria, Dec. 1974.
- [Bjørner 77a] D.Bjørner: "Programming Languages: Formal Development of Interpreters & Compilers", in: [Morlet 77] pp.1-22.
- [Bjørner 77b] -----: "Programming Languages: Linguistics and Semantics", in: [Morlet 77], pp.511-536.
- [Bjørner 77c] -----: "Systematic Program Derivation Techniques", Dept.of Comp.Sci., Techn.Rept.ID677, Techn. University of Denmark, Nov.1976/April 1977.
- [Bjørner 77d] -----: "The Systematic Development of a Compiling Algorithm", ibid, ID681, Aug.1977.
- [Bjørner 77e] -----: "Experiments in Block-Structured GOTO-Language Modeling", ibid, ID716, July 1977.

- [Bjørner 78a] ----- & C.B.Jones (eds.): "The Vienna Development Method: The Meta-Language", Springer Verlag, 'Lecture Notes in Computer Science', This Volume, Heidelberg - New York, 1978.
- [Bjørner 78b] D.Bjørner: "Programming in the Meta-Language: A Tutorial", in: [Bjørner 78a] pp. 24-217.
- [Bjørner 78c] -----: "Software Abstraction Principles: Tutorial Examples of an Operating System Command Language Specification and a PL/I-like On-Condition Language Definition", in: [Bjørner 78a] ,pp. 337-374.
- [Burstall 69] R.M.Burstall & P.J.Landin: "Programs and their Proofs: An Algebraic Approach", in: 'Machine Intelligence', (ed.D.Michie) vol.4, pp.17-43, Edinburgh Univ.Press, 1969.
- [Chomsky 59] N.Chomsky: "On Certain Formal Properties of Grammars", Information & Control, vol.2, no.2, pp.137-167, 1959.
- [Church 41] A.Church: "The Calculi of Lambda-Conversion", Annals of Math.Studies, no.6, Princeton University Press, 1941.
- [deBakker 69] J.de Bakker: "Semantics of Programming Languages", in: 'Advances in Information Systems Sciences, vol. 2, chap.3, Plenum Press, pp. 173-227, 1969.
- [deMorgan 75] R.M.de Morgan, I.D.Hill & B.A.Wichman: "Modified Report on the Algorithmic Language ALGOL 60", BCS Comp. Journal, vol.19, pp.364-379, Nov.1976.
- [Dennis 75] J.B.Dennis: "Modularity", in: 'Software Engineering', (ed.F.L.Bauer) Springer Verlag, 'Lecture Notes in Computer Science', vol.30, Heidelberg - New York, pp. 128-182, 1975.
- [Dijkstra 62] E.W.Dijkstra: "An Attempt to Unify the Constituent Concepts of Serial Program Execution", in: 'Symbolic Languages in Data Processing', Proceedings ICC Symp. Rome 1962, Gordon & Breach, New York, pp.237-251, 1962.
- [Dijkstra 68] -----: "The Structure of THE Multiprogramming System", Comm.ACM, vol.11, no.5, pp.341-346, 1968.
- [Dijkstra 75] -----: "Guarded Commands, Non.Determinacy & Formal Program Derivation", Comm.ACM, vol.18, no. 8, pp.453-457, 1975.
- [Dijkstra 76] -----: "A Discipline of Programming", Prentice-Hall, 1976.
- [ECMA 74] European Comp.Mfg.Assoc.: "PL/I BASIS/1" (also: American National Standards Inst.) ECMA/TC10 & ANSI. X3J1, Basis/1-12, July 1974.
- [Elgot 64] C.C.Elgot & A.Robinson: "Random-Access, Stored-Program Machines: an Approach to Programming Languages", Jour.ACM, vol.11, no.4, pp.365-399, 1964.
- [Engeler 71] "Symposium on Semantics of Algorithmic Languages", (ed.:E.Engeler), Springer Verlag: 'Lecture Notes in Mathematics', vol.188, 1971.

- [Fleck 69] M.Fleck: "Formal Definition of the PL/I Compile Time Facilities", IBM (Vienna) Techn.Rept.No.25.095, Vienna, Austria, June 1965.
- [Floyd 67] R.W.Floyd: "Assigning Meanings to Programs", in: 'Mathematical Aspects of Comp.Sci.', Proceedings of Symposia in Appl.Math., vol.19, (ed.J.Schwartz) American Math.Soc., Providence, Rhode Island, pp. 19-32, 1967.
- [Forino 66] Carraciolo di Forino: "Generalized Markov Algorithms and Automata", in: 'Automata Theory', (ed.:E.R.Caiannello) Academic Press, pp.115-130, 1966.
- [Gutttag 77] J.Gutttag: "Abstract Data Types and the Development of Data Structures", Comm.ACM, vol.20, no.6, pp. 396-404, June 1977.
- [Halås 75] A.Halås: "Event Driven Control Statements", BIT, vol. 15, pp.259-271, 1975.
- [Hansal 76] A.Hansal: "A Formal Definition of a Relational Data Base System", IBM (Peterlee) Techn.Rept.No.UKSC0080, June 1976.
- [Hansen 73] P.B.Hansen: "Operating System Principles", (ref.:pg. 135 top) Prentice-Hall, 1973.
- [Henderson 75] D.A.Henderson: "The Binding Model: A Semantic Base for Modular Programming Systems", MIT (project MAC) Techn.Rept.No.TR-145, Feb.1975.
- [Henhapl 70a] W.Henhapl & C.B.Jones: "On the Interpretation of GOTO Statements in the ULD", IBM (Vienna) Lab.Note.No.LN 25.3.065, March 1970.
- [Henhapl 78] W.Henhapl & C.B.Jones: "A Formal Definition of ALGOL 60 as Described in the 1975 Modified Report", in: [Bjørner 78a], pp.305-336, 1978.
- [Hoare 69] C.A.R.Hoare: "The Axiomatic Basis of Computer Programming", Comm.ACM, vol.12, no.10, pp.576-583, Oct. 1969.
- [Hoare 71] -----: "Procedures and Parameters: An Axiomatic Approach", in: [Engeler 71], pp. 102-116.
- [Hoare 73] ----- & N.Wirth: "An Axiomatic Definition of the Programming Language PASCAL", Acta Informatica, vol.2, pp.335-355, 1973.
- [Hoare 74] C.A.R.Hoare & P.Lauer: "Consistent and Complementary Formal Theories of the Semantics of Programming Languages", Acta Informatica, vol.3, pp.135-153, 1974.
- [Izbicki 75] H.Izbicki: "On a Consistency Proof of a Chapter of the Formal Definition of a PL/I Subset", IBM (Vienna) Techn.Rept.No.TR25.142, Feb.1975.
- [Jones 70] C.B.Jones: "Yet Another Proof of the Block Concept", IBM (Vienna) Lab.Note.No.LN25.3.075, Vienna, Austria, Aug.1975.

- [Jones 71] C.B.Jones & P.Lucas: "Proving Correctness of Implementation Techniques", in: [Engeler 71] , pp. 178-211 .
- [Jones 72] C.B.Jones: "Formal Development of Correct Algorithms: An Example Based on Earley's Recogniser", ACM SIGPLAN /SIGACT Symp. on 'Proving Assertions about Programs', Las Cruces, Jan. 72, SIGPLAN NOTICES, vol.7, no.1, pp. 150-169, 1972.
- [Jones 75] -----: "Formal Definition in Program Development", in: Springer Verlag 'Lecture Notes in Computer Science', vol.23, pp. 387- 443, 1975.
- [Jones 76a] -----: "Formal Definition in Compiler Development", IBM (Vienna) Techn.Rept.No.TR25.145, Vienna, Austria, Feb.1976.
- [Jones 77a] -----: "Program Specifications and Formal Development", in [Morlet 77], pp. 537-554.
- [Jones 77c] -----: "Implementation Bias in Constructive Specifications", IBM (La Hulpe) Manuscript, Sept. 1977.
- [Jones 78a] -----: "The Meta-Language: A Reference Manual", in: [Bjørner 78a] , pp. 218-277.
- [Jones 78b] -----: "Denotational Semantics of GOTO: An Exit Formulation and its Relation to Continuations", in: [Bjørner 78a] , pp. 278-304.
- [King 75] J.C.King: "A New Approach to Program Testing", in: Springer Verlag, 'Lecture Notes in Computer Science', vol.23, ("Programming Methodology") pp.278-290,1975.
- [Kleene 67] S.C.Kleene: "Mathematical Logic", Wiley & Sons, 1967.
- [Knuth 68] D.E.Knuth: "Semantics of Context-Free Languages", Mathematical Systems Theory, vol.2, pp.127-145,1968.
- [Knuth 74] -----: "Structured Programming with GOTO State=ments", ACM Computing Surveys, vol.6, no.4, pp.261-302, 1974.
- [Landin 64] P.J.Landin: "The Mechanical Evaluation of Expressions", BCS Computer Journal, vol.6, no.4, pp.308-320, 1964.
- [Landin 65] -----: "A Correspondance Between ALGOL 60 and Church's Lambda-Notation", (2 Parts) Comm.ACM, vol. 8, nos.2-3, pp.89-101 & 158-165, Feb.-March 1965.
- [Lauer 68] P.E.Lauer: "Formal Definition of ALGOL 60", IBM (Vienna) Techn.Rept.No.TR25.088, Dec.1968.
- [Lauer 71] -----: "Consistent Formal Theories of the Seman=tics of Programming Languages", (Ph.D.Thesis) IBM (Vienna) Techn.Rept.No.TR25.121, Nov.1971.
- [Lee 72] J.A.N.Lee: "Computer Semantics", Van Nostrand Rein=hold Co., 1972.

- [Liskov 75] B.H.Liskov & S.N.Zilles: "Specification Techniques for Data Abstractions", IEEE Trans.Softw.Eng.,vol. SE-1,(vol.1) no.1, pp.7-19, March 1975.
- [London 70] R.L.London: "Bibliography on Proving the Correctness of Computer Programs", in: 'Machine Intelligence', (eds.Meltzer & Michie), vol.5, Edinburgh Univ.Press, pp.569-580. 1969.
- [Lucas 68] P.Lucas: "Two Constructive Realizations of the Block Concept and Their Equivalence", IBM (Vienna) Techn.Rept.No.TR25.085, Vienna, Austria, June 1968.
- [Lucas 69] ----- & K.Walk: "On the Formal Description of PL/I", Annual Review in Automatic Programming,vol. 6, pt.3, Pergamon Press, 1969.
- [Lucas 73] P.Lucas: "On Program Correctness and the Stepwise Development of Implementations", in: Proceedings 'Convegno di Informatica Teorica', Univ.of Pisa, Italy, pp.219-251, March 1973.
- [Lucas 78] -----: "On the Formalization of Programming Languages: Early History & Main Approaches", in: [Bjørner 78a], pp. 1 - 23.
- [Madsen 77] J.Madsen: "An Experiment in Formal Definition of Operating System Facilities", Inform.Proc.Letters, vol.6, no.6, pp. 187-189, Dec. 1977.
- [Manna 72] Z.Manna & J.Vuillemin: "Fixed-Point Approach to the Theory of Computation", Stanford Univ., Comp.Sci. Dept. & Dept.of Artif.Intell.Rept.AIM164, also: ACM SIGPLAN Notices, Jan.1972.
- [McCarthy 63] J.McCarthy: "Towards a Mathematical Science of Computation", in: 'Information Processing', North-Holland Publ., 1963.
- [McCarthy 67] ----- & J.Painter: "Correctness of a Compiler for Arithmetic Expressions", Proceedings of Symposia in Applied Mathematics, 'Mathematical Aspects of Computer Science', (ed.J.Schwartz), American Math.Soc., Rhode Island, pp. 33-41, 1967.
- [McCarthy 66] J.McCarthy: "A Formal Description of a Subset of ALGOL", in:
- [Milne 74] R.E.Milne: "The Formal Semantics of Computer Languages and Their Implementation", Ph.D.Thesis,PRG-13, Techn.Microfiche TCF-2, Oxford Univ.Prgr.Res. Grp., 1974.
- [Milne 76] ----- & C.Strachey: "A Theory of Programming Language Semantics", Chapman and Hall, 1976.
- [Milner 73] R.Milner: "An Approach to the Semantics of Parallel Programs", in: Proceedings 'Convegno di Informatica Teorica', Univ.of Pisa, Italy, pp.285 ff., March 1973.
- [Morlet 77] E.Morlet & D.Ribbens: 'International Computing Symposium 77', European ACM, North-Holland, 1977.

- [Morris 38] C.Morris: "Foundations of the Theory of Signs", in: 'International Encyclopedia of Unified Science', vol.1, no.2, Univ.of Chicago Press, 1938.
- [Morris 55] -----: 'Signs, Language and Behaviour', G.Bra= ziller, New York, 1955.
- [Morris 73] F.L.Morris: "Advice on Structuring Compilers and Proving them Correct", in: 'Principles of Program= ming Languages', ACM SIGPLAN Symp., Boston, pp. 144-152, Oct.1973.
- [Moser 70] E.Moser: "On a Formal Description of an Indexed Sequential Dataset", IBM (Vienna) Lab.Rept.No. LR25'1.010, March 1970.
- [Mosses 74] P.D.Mosses: "The Mathematical Semantics of ALGOL 60", Oxford Univ.Prgr.Res.Grp., PRG-12, 1974.
- [Mosses 75] -----: "The Semantics of Semantic Equations", in: Springer Verlag, 'Lecture Notes in Computer Science', vol.28, pp.409-422, 1975.
- [Mosses 76] -----: "Mathematical Semantics and Compiler Generation", Ph.D.Thesis, Oxford Univ., Prgr.Res. Grp., April 1974.
- [Mosses 77] -----: "Making Denotational Semantics Less Concrete", Pres.Bad Honnef, Germany, March 1977.
- [Naur 63] P.Naur: "Revised Report on the Algorithmic Lan= guage ALGOL 60", (editor) Comm.ACM, vol.6, no.1, pp.1 ff, 1963.
- [Neuhold 71] E.Neuhold: "The Formal Description of Programming Languages", IBM Systems Journal, vol.10, no.2, pp.86-112, 1971.
- [Nilsson 76] J.F.Nilsson: "Relational Data Base Systems - Form= alization and Realization", Ph.D.Thesis, Dept.of Comp.Sci., Techn.Univ. of Denmark, Rept.ID641, 1976.
- [Ollongren 75] A.Ollongren: "A Definition of Programming Langu= ages by Interpreting Automata", Academic Press, 1975.
- [Park 70] D.Park: "Fixpoint Induction and Proofs of Program Properties", in: 'Machine Intelligence', (eds. Meltzer and Michie) vol.5, Edinburgh Univ.Press, pp.59-78, 1970.
- [Reynolds 72] J.C.Reynolds: "Definitional Interpreters for Higher-Order Programming Languages", Procs.25th ACM Nat'l.Conf., pp.717-740, 1972.
- [Reynolds 73] -----: "Algebraic & Mathematical Semantics", Course Notes SIS 670, Dept.of Sys.& Inf.Sci., Syracuse Univ.,N.Y., 1973.
- [Reynolds 74] -----: "On the Relation Between Direct and Continuation Semantics", Springer Verlag 'Lecture Notes in Computer Science', vol.14, 1974.

- [Reynolds 75] -----: "Relational and Continuation Semantics for a Simple Imperative Language", 1975.
- [Reynolds 76] -----: "Topics in Programming Languages", Course Notes SIS 830, Dept.of Sys.& Inf.Sci., Syracuse Univ., N.Y., 1974.
- [Schwartz 75] J.Schwartz: "A Comment on Correctness Proofs", SETL Newsletter 159, Courant Inst.of Math., New York University, pp.6-15, 1975.
- [Scott 70] D.Scott: "Outline of a Mathematical Theory of Computation", Oxford Univ.,Prgr.Res.Grp., PRG-2, Nov. 1970.
- [Scott 71] ----- & C.Strachey: "Towards a Mathematical Semantics for Computer Languages", in: Proceedings of the Symposium on 'Computers and Automata', MRI Symposia, vol.XXI, Polytechnic Inst.of Brooklyn, N.Y., 1971.
- [Scott 72] D.Scott: "Mathematical Concepts in Programming Language Semantics", Proc.AFIPS, Spring Joint Computer Conference, vol.40, pp.225-234, 1972.
- [Scott 76] -----: "Data Types as Lattices", SIAM Journal on Computer Science, vol. 5, no.3 , pp. 522-587, 1976.
- [Steel 66] T.B.Steel: 'Formal Language Description Languages' (editor) North-Holland Publ., 1966.
- [Stoy 74] J.Stoy: "The Scott-Strachey Approach to the Mathematical Semantics of Programming Languages", MIT Lecture Notes, Course 6.791, Fall 1973, also: MIT Press, 1977.
- [Strachey 66] C.Strachey: "Towards a Formal Semantics", in: [Steel 66] , pp. 198-220.
- [Strachey 73] -----: "The Varieties of Programming Languages", Oxford Univ.,Prgr.Res.Grp., PRG-10, March 1973.
- [Strachey 74] ----- and C.Wadsworth: "Continuations: A Mathematical Semantics which can deal with Full Jumps", Oxford Univ., Prgr.Res.Grp., PRG-11, 1974.
- [Tennent 73] R.D.Tennent: "The Mathematical Semantics of SNOBOL 4", in: 'Principles of Programming Languages', ACM SIGPLAN Symp., Boston, pp. 95 -107, Oct.1973.
- [Tennent 76] -----: "The Denotational Semantics of Programming Languages", Comm.ACM, vol.19, no.8, Aug. 1976.
- [Todd 76] S.J.Todd: "The Peterlee Relational Test Vehicle: A System Overview", IBM Systems Journal, vol.15, no.4, 1976.
- [Urschler 69a] G.Urschler: "Concrete Syntax of PL/I", IBM (Vienna) Techn.Rept.No. TR25.096, Vienna, Austria, June 1969.
- [Urschler 69b] -----: "Translation of PL/I into Abstract Syntax", IBM (Vienna) Techn.Rept.No.TR25.097, Vienna, Austria, June 1969.

- [Uzgalis 77] J.C.Cléaveland & R.C.Uzgalis: "Grammars for Programming Languages", Elsevier Comp.Sci.Lib., Prgr.Lang. Ser. vol.4, N.Y., 1977.
- [Walk 69] K.Walk, K.Alber, M.Fleck, H.Goldmann, P.Lauer, E.Moser, P.Oliva, H.Stigleitner & G.Zeisel: "Abstract Syntax and Interpretation of PL/I (ULD Version III)", IBM (Vienna) Techn.Rept.No.TR25.098, Vienna, Austria, Apr.1969.
- [Wegner 72] P.Wegner: "The Vienna Definition Language", ACM Computing Surveys, vol.4, no.1, March 1972.
- [Weissenböck 75] F.Weissenböck: "A Formal Interface Specification" IBM (Vienna) Techn.Rept.No.TR25.141, Vienna, Austria, Feb.1975.
- [van Wijngaarden 62] A.van Wijngaarden: "Generalized ALGOL", in: 'Symbolic Languages in Data Processing', Proc. ICC Symp., Rome, Gordon & Breach, N.Y., pp.409-419, 1962.
- [Wirth 71] N.Wirth: "Program Development by Stepwise Refinement", Comm.ACM, vol.14, no.4, pp.221-227, 1971.
- [Wirth 73] -----: "Systematic Programming", Prentice-Hall, 1973.
- [Wirth 76] -----: "Algorithms + Data Structures = Programs", Prentice-Hall, 1976.
- [Zahn 74] C.T.Zahn: "A Control Statement for Natural Top-Down Structured Programming", in: 'Programming', Springer Verlag, 'Lecture Notes in Computer Sci.', vol.19, pp.170-180, 1974.
- [Zemanek 66] H.Zemanek: "Semiotics and Programming Languages", Comm.ACM, pp.139-143, 1966.
- [Zimmermann 69] K.Zimmermann: "Outline of a Formal Definition of FORTRAN", IBM (Vienna) Lab.Rept.No.LR25.3.053, Vienna, Austria, June 1969.