

Publications (Complete List)

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(Proceedings, handbooks, special issues etc are marked by **.)

1970

“Facts about stack-automata, related devices and their languages”, Abstract No. 2 (Survey), Seminar on Automata Theory and Mathematical Linguistics, Dept. of Mathematics, University of Utrecht, Utrecht, Spring 1970.

“The general theory of translation”, Abstract No. 6 (Survey), Seminar on Automata Theory and Mathematical Linguistics, Dept. of Mathematics, University of Utrecht, Utrecht, Spring 1970.

“Automata, transducers, recognizers”, Abstract No. 6a (Survey), Seminar on Automata Theory and Mathematical Linguistics, Dept. of Mathematics, University of Utrecht, Utrecht, Spring 1970.

“Short introduction to the mathematical theory of linear sequential machines”, Abstract No. 12 (Survey), Seminar on Automata Theory and Mathematical Linguistics, Dept. of Mathematics, University of Utrecht, Utrecht, Spring 1970.

“Brackets and parentheses in the theory of context-free languages”, Abstract No. 6 (Survey), Seminar on Automata Theory and Mathematical Linguistics, Dept. of Mathematics, University of Utrecht, Utrecht, Winter 1970.

1971

“On compositions of semi-groups”, Notices Amer. Math. Soc. 18 (1971), 405, 71 T-A56.

“Grammatica’s en Lindenmaier’s model voor cellular development”, Research Communication (ERCU-102-0), Electronisch Rekencentrum, University of Utrecht, Utrecht, Spring 1971.

“Canonical restrictions of Lindenmayer languages”, Proc. IVth Int. Congr. for Logic, Methodology and Philosophy of Science, Bucharest, Romania, 1971.

“Rule-labeled programs - a generalization of the notion of context-free grammar”, Abstract No. 1, Seminar on Syntactical and Semantical Problems in Theoretical Computer Science,

Dept. of Mathematics, University of Utrecht, Utrecht, 1971.

1972

“Rule-labeled programs” (A study of a generalization of contextfree grammars and some classes of formal languages), Ph.D. Thesis, Utrecht, 1972.

“A note on uniform Lindenmayer languages”, techn. memorandum, Dept. of Computer Science, University of California, Berkeley, 1972.

“Unary developmental systems and languages”, (with G.T. Herman, K.P. Lee, and G. Rozenberg), Technical Report, Dept. of Computer Science, State University of New York at Buffalo, Buffalo, 1972.

1973

“Characterization of unary developmental languages”, (with G.T. Herman, K.P. Lee, and G. Rozenberg), Discrete Mathematics 6 (1973) 235-247.

“Rascal” (A programming language for finite automata), (with Th.A. Zoethout, et al.), LO-COS 4, Dept. of Mathematics, University of Utrecht, Utrecht, 1973.

“Pre-set push-down automata and OL-grammars”, Techn. Report 10, Dept. of Computer Science, Univ. of California, Berkeley, 1973.

“On the efficient validation of execution-sequences of simple recursive and parallel programm-schemata”, presented at the Symp. on Complexity of Sequential and Parallel Numerical Algorithms, Carnegie-Mellon Univ. Pittsburgh, 1973.

“F-iteration languages”, techn. memorandum, Dept. of Computer Science, University of California, Berkeley, 1973.

“Hyper-AFLs and all preset push-down automaton languages are indexed”, techn. memorandum, Dept. of Computer Science, Univ. of California, Berkeley, 1973.

“The halting-problem for Turing assemblers”, (with R.M. Baer) Techn. Report 23, Dept. of Computer Science, Univ. of California, Berkeley, 1973.

“Planar realizations of networks”, Buffalo 1973 (submitted to Discrete Mathematics).

“On the fixpoints of monogenic functions in free monoids”, Report, Dept of Computer Science, State University of New York, Buffalo, 1973, revised: Techn. Report, Mathematical Centre, Amsterdam, 1975, also in: Semigroup Forum 10 (1975) 315-328.

1974

“An intrinsic generalization of Büchi’s theorem for regular canonical systems”, Buffalo, 1973, Abstract presented at the Computer Science Conference, Detroit, February 12-14, 1974.

“A partial solution of the reachability problem for vector-addition systems and some applications”, Proceedings of the Sixth Annual ACM Symposium on Theory of Computing, Seattle, April 30 - May 2 (1974, 303-309).

“The tape-complexity of context-independent developmental languages”, Proceedings of the Conference on Biologically Motivated Automata Theory, McLean, VA, June 19-21, 1974, revised version: Journal of Computer and System Sciences 11 (1975) 203-211.

“A generalization of Parikh’s theorem in formal language theory”, Technical Report No. 71, Buffalo, 1974, also in the Proceedings of the 2nd Colloquium on Automata, Languages and Programming, Saarbrücken, July 29 - August 2, 1974, Springer Lecture Notes in Computer Science 14, pp. 17-26.

“An improved bound for detecting looping configurations on deterministic pda’s”(with C. Smith), Technical Report 67, Buffalo, 1974, Information Processing Letters 3 (1974) 22-24.

“Notes on preset pushdown automata”, Proceedings of the Conference on Developmental Languages, Aarhus, Denmark, Springer Lecture Notes in Computer Science 15 (1974) 177-188.

“Microprogrammable random access stored program machines”, (together with C. Smith), SIGACT NEWS 6 (1974) July issue pp. 23-32.

“A decomposition theorem for hyper-algebraic extensions of language families”, (together with D. Wood), Technical Report No. 74/6, Mc. Master University, Hamilton, Ontario, 1974, revised version: Theor. Computer Science 1 (1976) 199-214.

“An improvement of the Hadian-Sobel bound for selecting the t -th largest of n elements”(with P.J. Eberlein and John Moore), Buffalo, 1974 (in preparation).

“Reconsidering a problem of M. Ward”, Notes on Logic and Computer Science (LOCOS) No. 8, University of Utrecht, Utrecht, 1974, published in: 18th Anniv. Volume of the Fibonacci Quarterly, 1980.

“Symposium on Biologically Motivated Automata Theory: report”, Utrecht, 1974, SIGACT NEWS 6 (1974) October issue, pp. 9-10.

“The membership question for ETOL languages is polynomially complete”, Notes on Logic and Computer Science (LOCOS) No. 9, University of Utrecht, Utrecht, 1974, in: Information Processing Letters 3 (1975) 138-143.

“Efficiently computing the product of two binary relations”, Notes in Logic and Computer Science (LOCOS) No. 10, University of Utrecht, Utrecht, 1974, in: Int. J. Computer Mathematics 5 (1976) 193-201.

“A forgotten connection between tag systems and parallel rewriting”, SIGACT NEWS 6 (1974) October issue, pp. 19-20.

“Extremal properties of non-deterministic time-complexity classes”, Notes in Logic and Computer Science (LOCOS) No. 11, University of Utrecht, Utrecht, 1974, in: E. Gelenbe & D. Potier (Ed.): International Computing Symposium 1975, North Holland/American Elsevier, Amsterdam (1975) 61-64.

** “Introduction to the analysis of computer-algorithms”, (lecture notes in Dutch), Notes in Logic and Computer Science (LOCOS) No. 12, University of Utrecht, Utrecht, 1974.

“Fast algorithms for non-singular matrices”, Notes in Logic and Computer Science (LOCOS) No. 19, University of Utrecht, Utrecht, 1974.

“The complexity of set-merging with less than a linear number of FINDS”, Notes in Logic and Computer Science (LOCOS) No. 21, University of Utrecht, Utrecht, 1974.

1975

“Infinite chains of hyper-AFL’s”, (together with P.R.J. Asveld), Techn. Memorandum, Twente Technological University, 1975.

“Aspects of general complexity in hyper-algebraic families”, Notes in Logic and Computer Science No. 23, University of Utrecht, Utrecht, (1975), presented at the Conference on Languages and Development, Noordwijkerhout, April 1-6 (1975).

“A study of complexity in hyper-algebraic families”, Techn. Report, Mathematical Centre, Amsterdam (1975), in A. Lindenmayer & G. Rozenberg (Ed.): Automata, Languages, and Development, North Holland Publ. Comp. (1975).

“On the non-vanishing terms in a product of multivariate polynomials”, Techn. Report, Mathematical Centre, Amsterdam, 1975.

“The halting problem for linear Turing Assemblers”, (with R.M. Baer), revised version, Techn. Report, Mathematical Centre, Amsterdam, 1975, in: Journ. of Computer and System Sciences 13 (1976) 119-135.

“Deterministically recognizing EOL-languages in time $O(n\text{-to-the-}3.81)$ ”, Techn. Report, Mathematical Centre, Amsterdam, 1975.

“Computing a polynomial and all its derivatives in a small number of multiplications and no division”, presented at the Dutch Mathematical Congress, Utrecht, 1975.

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issue, pp. 32-34.

“Een beschouwing over de afdeling Informatica”, (in Dutch) Internal report, Mathematical Centre, Amsterdam, 1975.

“Some elementary proofs of lower-bounds in complexity”, (with P. van Emde Boas), Techn. Report, Mathematical Centre, Amsterdam, 1975, revised version in: *J. Lin. Algebra and Appl.* 19 (1978) 63-80

“An algebraic theory of formal languages”, contributed paper, Vth Int. Congress for Logic, Methodology, and Philosophy of Science, London, Ontario (1975).

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“The complexity of vector-products”(with D. Dobkin), *Information Processing Letters* 4 (1976) 149-154.

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“One way machines using a checking stack”, Techn. Report 108, Dept. of Computer Science, State University of New York, Buffalo (1976).

“Recursively enumerable languages and van Wijngaarden grammars”, Techn. Rep. 112, SUNY at Buffalo (1976), *Indagationes Mathematicae* 80 (1977) 29-39.

“Lectures on the complexity of data-organization (recent directions)”, chapter 2 in: J.W. de Bakker (Ed.): *2nd Advanced Course on Foundations of Computer Science*, MC Tract 81 (1976) 37-147, Mathematical Centre, Amsterdam.

“On the construction of Huffman-trees”, in S. Michaelson, R. Milner (Eds.): *Automata, Languages and Programming (Proceedings of the 3rd Colloquium, Edinburgh, July 20-23, 1976)*, Edinburgh University Press (1976) 382-410.

“Variations of a new machine-model”, Conference-record 17th Annual IEEE Symp. on Foundations of Computer Science, Houston, Texas (Oct. 25-27, 1976), pp. .. - ...

“Effective constructions in well-partially-ordered free monoids”, Techn. Rep. 203, The Pennsylvania State University (1976), in: *Discrete Math.* 21 (1978) 237-252.

“A regularity condition for parallel rewriting systems”, *SIGACT NEWS* 8 (1976) 24-27 (also *SIGACT NEWS* 9 (1977) 9).

“What makes some program-optimization problems hard”, Techn. Rep. 206, The Pennsylvania State University (1976).

“Testing for a Grundy-numbering is NP-complete”, Techn. Rep. 207, The Pennsylvania State University (1976).

“A generalization of star chains”, Techn. Rep. 209, The Pennsylvania State University (1976).

“An extension of Hansen’s theorem for star chains”, Techn. Rep. 211, The Pennsylvania State University (1976), *J. Reine u. Angew. Math.* 295 (1977) 202-207.

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“Inequivalence of program segments and NP-completeness”, Techn. Rep. 217, The Pennsylvania State University (1977).

“On the analysis of some halving procedures for binomial group testing” (with C.G. Pfeifer and Peter Enis), Techn. Rep. 77-5, University of Maryland B.C. (1977) (submitted to *Biometrika*).

“On the complexity of decision trees, the quasi-optimizer, and the power of heuristic rules” (with N.V. Findler), Techn. Rep., SUNY at Buffalo (1977), *Inf. and Contr.* 40 (1979) 1-19.

“Deciding associativity for partial multiplication tables of order 3” (with P.W. Bunting and D. Tamari), Techn. Rep. 219, The Pennsylvania State University (1977), *Math. of Computation* 32 (1978) 593-605.

“Stack automata and classes of nonnested macro languages” (with J. Engelfriet and E. Meineche Schmidt), Techn. Rep. 221, The Pennsylvania State University (1977), revised as Techn. Rep. RUU-CS-77-2, University of Utrecht (1977), also *JACM* 27 (1980) 96-117.

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** “Introduction to database systems” (210 p., in Dutch), Techn. Rep. RUU-CS-77-4, University of Utrecht (1977).

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“A useful lemma for contextfree programmed grammars”, Techn. Rep. RUU-CS-78-1, Uni-

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“Compromising statistical databases with a few known elements”, Techn. Rep. RUU-CS-78-2, University of Utrecht (1978), *Inf. Proc. Letters* 8 (1979) 149-153.

“Linear time generation of a new fixed length data-compression code”, Techn. Rep. RUU-CS-78-3, University of Utrecht (1978).

“File-optimization through migration of records”(in Dutch), in J.C. van Vliet (ed.), *Colloquium Capita Datastructuren*, MC Syllabus 37, Mathematical Centre, Amsterdam (1978), pp. 187-206.

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“The composition of fast priority queues”, Techn. Rep. RUU-CS-78-5, University of Utrecht (1978) (presented at the GI Jahrestagung, TU Berlin, 1978), abstract in: S. Schindler, W.K. Giloi, *GI-8.Jahrestagung, Informatik-Fachberichte* vol 16, Springer-Verlag, Berlin, 1978, p. 337.

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“On program efficiency and algebraic complexity”, Techn. Rep. RUU-CS-79-1, University of Utrecht (1979), *Informatik Spektrum* 3 (1980) 172-180.

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“Dynamization of decomposable searching problems”(with D. Wood), Techn. Rep. RUU-CS-79-5, University of Utrecht (1979), Inform. Proc. Letters 10 (1980) 51-56.

“The measure problem for rectangular ranges in d-space”(with D. Wood), Techn. Rep. RUU-CS-79-6, University of Utrecht (1979), J. of Algorithms 2 (1981) 282-300.

“Maintenance of configurations in the plane”(with M.H. Overmars), Techn. Rep. RUU-CS-79-9, University of Utrecht (1979).

“Two general methods for dynamizing decomposable searching problems”(with M.H. Overmars), Techn. Rep. RUU-CS-79-10, University of Utrecht (1979), Computing 26 (1981) 155-166.

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“Further comments on Bykat’s convex hull algorithm”(with M.H. Overmars), Inf. Proc. Letters 10 (1980) 209-212.

“Dynamic systems of static datastructures”(with H. Maurer), Bericht 42, Inst. f. Informationsverarb., TU Graz, 1980.

** “Foundations of Computer Science III”, part 1: MC Tract 108, Part II: MC Tract 109 (edited with J.W. de Bakker), Mathem. Centre, Amsterdam 1980.

“The single chip computer”(in Dutch), contribution in P. Slaa (ed.), De Chips Revolutie, Rep. Studium Generale, RU Utrecht, 1980, pp. 3-26.

“Some principles for dynamizing decomposable searching problems”(with M.H. Overmars), Techn. Rep. RUU-CS-80-1, University of Utrecht (1980), Inf. Proc. Lett. 12 (1981) 49-53.

“Dynamic multi-dimensional data-structures based on quad- and k-d trees”, (with M.H. Overmars), Techn. Rep. RUU-CS-80-2, University of Utrecht (1980) (outline presented at the 16th Dutch Math. Congress, Nijmegen, 1980), Acta Informatica 17 (1982) 267-285.

“Triangulating a star-shaped polygon”(with A.A. Schoone), Techn. Rep. RUU-CS-80-3, University of Utrecht (1980).

“Reducing 3DM to CLIQUE and HAMILTONIAN CIRCUIT”(with M.J. Fischer), EATCS Bulletin 11, 1980, p. 15-19.

“Multi-dimensional algorithms and datastructures: bibliography”(with H. Edelsbrunner, Graz), EATCS Bulletin 11, 1980, p. 46-74.

“Report on STOC 80”, EATCS Bulletin 11, 1980, p. 145-152.

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“Notes on Maintenance of configurations in the plane”(with M.H. Overmars), Techn. Rep. RUU-CS-80-5, University of Utrecht (1980).

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“Computers and (in)tractable problems (in Dutch), Techn. Rep. RUU-CS-80-8, University of Utrecht (1980) (presented in the MC Colloquium Series on ”Complexity and Algorithms” 1980).

“Worst case optimal insertion and deletion methods for decomposable searching problems”(with M.H. Overmars), Techn. Rep. RUU-CS-80-10, University of Utrecht (1980), Inf. Proc. Lett. 12 (1981) 168-173.

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“Efficient recognition of rational relations”(with M. Nivat), Techn. Rep. RUU-CS-80-12. University of Utrecht (1980), Inf. Proc. Lett. 14 (1982) 34-38 (Outline presented at the 17th Dutch Math. Congress, Amsterdam, 1981).

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1982

** “Fundamental algorithms”(295 p., in Dutch), Techn. Rep. RUU-CS-82-1, University of Utrecht (1982).

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“The NP-completeness of finding minimum area layouts for VLSI circuits”(with M.R. Kramer), Techn. Rep. RUU-CS-82-6, University of Utrecht, 1982.

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