References

[1] M. Abadi, L. Lamport, and P. Wolper. Realizable and unrealizable specifications of reactive systems. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 1–17. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[2] J.A. Abbott. Integration: Solving the risch differential equation. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 465–467. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[3] J.A. Abbott and J.H. Davenport. Polynomial factorization: An exploration of lenstra's algorithm. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 391–402. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[4] S.K. Abdali and D.S. Wise. Experiments with quadtree representation of matrices. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 96–108. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[5] H. Abdulrab. Equations in words. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 508–520. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[6] H. Abdulrab and J.-P. Pécuchet. On word equations and makanin's algorithms. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380

of *LNCS*, pages 1–12. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[7] S.S. Abhyankar and C.L. Bajaj. Computations with algebraic curves. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 274–284. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[8] F.M. Ablayev. On comparing probabilistic and deterministic automata complexity of languages. In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume 379 of *LNCS*, pages 599–605. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[9] S.A. Abramov. Some algorithms of rational function algebra. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 45–47. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[10] S. Abramowski, B. Lang, and H. Müller. Moving regular k-gons in contact. In J. van Leeuwen, editor, *Proceedings of the 14th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'88 (Amsterdam, The Netherlands, June 15-17, 1988)*, volume 344 of *LNCS*, pages 229–242. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[11] Gur Saran Adhar and Shietung Peng. Parallel algorithms for cographs: Recognition and applications. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 335–351. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[12] Alok Aggarwal, Shlomo Moran, Peter W. Shor, and Subhash Suri. Computing the minimum visible vertex distance between two polygons. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceed-*

ings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989), volume 382 of *LNCS*, pages 115–134. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[13] Mohan Ahuja and Yahui Zhu. An efficient distributed algorithm for finding articulation points, bridges, and biconnected components in asynchronous networks. In C.E. Veni Madhavan, editor, *Proceedings of the 9th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'89 (Bangalore, India, December 19-21, 1989)*, volume 405 of *LNCS*, pages 99–108. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[14] Luc Albert. Average case complexity analysis of rete pattern-match algorithm and average size of join in databases. In C.E. Veni Madhavan, editor, *Proceedings of the 9th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'89 (Bangalore, India, December 19-21, 1989)*, volume 405 of *LNCS*, pages 223–241. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[15] Panagiotis Alevizos, Jean-Daniel Boissonnat, and Franco P. Preparata. On the boundary of a union of rays. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 72–83. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[16] E. Allender. Limitations of the upward separation technique. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 18–30. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[17] E. Allender and L.A. Hemachandra. Lower bounds for the low hierarchy. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15,*

1989), volume 372 of *LNCS*, pages 31–45. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[18] M.E. Alonso, I. Luengo, and M. Raimondo. An algorithm on quasi-ordinary polynomials. In Teo Mora, editor, *Proceedings of the 6th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome, Italy, July 4–8, 1988)*, volume 357 of *LNCS*, pages 59–73. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[19] C. Àlvarez, J. Díaz, and J. Torán. Complexity classes with complete problems between p and $np - c$. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 13–24. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[20] Richard Anderson, Simon Kahan, and Martine Schlag. An $o(n \log n)$ algorithm for 1-d tile compaction. In M. Nagl, editor, *Proceedings of the 15th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'89 (Castle Rolduc, The Netherlands, June 14-16, 1989)*, volume 411 of *LNCS*, pages 287–301. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[21] Arne Andersson. Improving partial rebuilding by using simple balance criteria. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 393–402. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[22] H. Andréka, I. Németi, and I. Sain. On the strength of temporal proofs. In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume 379 of *LNCS*, pages 135–144. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[23] J.H. Andrews. Proof-theoretic characterisations of logic programming. In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th*

International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989), volume 379 of *LNCS*, pages 145–154. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[24] J. Apel and W. Lassner. Computation and simplification in lie fields. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 468–478. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[25] S. Arnborg. Experiments with a projection operator for algebraic decomposition. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 177–182. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[26] Jr. Assmus, E.F. The coding theory of finite geometries and designs. In Teo Mora, editor, *Proceedings of the 6th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome, Italy, July 4–8, 1988)*, volume 357 of *LNCS*, pages 1–6. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[27] A. Astie-Vidal and A. Matteo. Non simple tournaments: Theoretical properties and a polynomial algorithm. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 1–15. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[28] Mikhail J. Atallah and Susanne E. Hambrusch. Optimal channel placement for multi-terminal nets. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 97–114. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[29] G. Ausiello, A. Marchetti Spaccamela, and U. Nanni. Dynamic maintenance of paths and path expressions on graphs. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 1–12. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[30] M. Baaz and A. Leitsch. Strong splitting rules in automated theorem proving. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 424–425. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[31] L. Bachmair and N. Dershowitz. A critical pair criterion for completion modulo a congruence. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 452–453. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[32] E. Badouel. Algebraically closed theories. In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume 379 of *LNCS*, pages 155–164. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[33] R.A. Baeza-Yates and G.H. Gonnet. Efficient text searching of regular expressions. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 46–62. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[34] Ricardo A. Baeza-Yates. String searching algorithms revisited. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada,*

August 17-19, 1989), volume 382 of *LNCS*, pages 75–96. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[35] Ricardo A. Baeza-Yates and Gaston H. Gonnet. Efficient text searching of regular expressions. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 1–2. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[36] Chanderjit L. Bajaj and Tamal K. Dey. Robust decompositions of polyhedra. In C.E. Veni Madhavan, editor, *Proceedings of the 9th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'89 (Bangalore, India, December 19-21, 1989)*, volume 405 of *LNCS*, pages 267–279. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[37] Jean-Pierre Barbot. A computer-aided design for sampling a nonlinear analytic system. In Teo Mora, editor, *Proceedings of the 6th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome, Italy, July 4–8, 1988)*, volume 357 of *LNCS*, pages 74–88. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[38] M.A. Barkatou. Rational newton algorithm for computing formal solutions of linear differential equations. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 183–195. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[39] D.A. Mix Barrington and P. McKenzie. Oracle branching programs and logspace versus (extended abstract). In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume 379 of *LNCS*, pages 370–379. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[40] M. Bartha. Interpretations of synchronous flowchart schemes. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 25–34. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[41] J.M. Basart and J. Rifà. Covering radius for codes obtained from $t(m)$ triangular graphs. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 16–24. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[42] Aida Batarekh and V.S. Subrahmanian. The query topology in logic programming. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 375–387. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[43] M. Bauderon. On systems of equations defining infinite graphs. In J. van Leeuwen, editor, *Proceedings of the 14th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'88 (Amsterdam, The Netherlands, June 15-17, 1988)*, volume 344 of *LNCS*, pages 54–73. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[44] Michel Bauderon and François Laubie. Searching for weakly autocorrelated binary sequences. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 25–34. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[45] Paul W. Beame and Hans L. Bodländer. Distributed computing on transitive networks: The torus. In B. Monien and R. Cori, editors,

Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989), volume 349 of *LNCS*, pages 294–303. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[46] M. Beaudry, P. McKenzie, and D. Thérien. Testing membership: Beyond permutation groups. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 388–399. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[47] D. Beauquier and J.E. Pin. Factors of words. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 63–79. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[48] P. Berman and J.A. Garay. Asymptotically optimal distributed consensus. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 80–94. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[49] Piotr Berman and Georg Schnitger. On the complexity of approximating the independent set problem. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 256–268. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[50] J. Berstel. Properties of infinite words: Recent results. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 36–46. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[51] A. Bertoni, D. Bruschi, D. Joseph, M. Sitharam, and P. Young. Generalized boolean hierarchies and boolean hierarchies over *rp*. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 35–46. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[52] Alberto Bertoni and Massimiliano Goldwurm. On the prefixes of a random trace and the membership problem for context-free trace languages. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 35–59. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[53] G. Bilardi and A. Moitra. Time lower bounds for crew-pram computation of monotone functions. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 95–108. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[54] Michel Billaud, Pierre Lafon, Yves Metivier, and Eric Sopena. Graph rewriting systems with priorities. In M. Nagl, editor, *Proceedings of the 15th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'89 (Castle Rolduc, The Netherlands, June 14-16, 1989)*, volume 411 of *LNCS*, pages 94–106. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[55] J. Biskup and H. Stiefeling. Transitive closure algorithms for very large databases. In J. van Leeuwen, editor, *Proceedings of the 14th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'88 (Amsterdam, The Netherlands, June 15-17, 1988)*, volume 344 of *LNCS*, pages 122–147. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[56] S.L. Bloom. The equational logic of iterative processes. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 47–57. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[57] Hans L. Bodlaender. Improved self-reduction algorithms for graphs with bounded treewidth. In M. Nagl, editor, *Proceedings of the 15th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'89 (Castle Rolduc, The Netherlands, June 14-16, 1989)*, volume 411 of *LNCS*, pages 232–244. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[58] Hans L. Bodlaender. On linear time minor tests and depth first search. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 577–590. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[59] H.L. Bodlaender. Nc-algorithms for graphs with small treewidth. In J. van Leeuwen, editor, *Proceedings of the 14th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'88 (Amsterdam, The Netherlands, June 15-17, 1988)*, volume 344 of *LNCS*, pages 1–10. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[60] H.L. Bodlaender, S. Moran, and M.K. Warmuth. The distributed bit complexity of the ring: from the anonymous to the non-anonymous case. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 58–67. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[61] R. Böffgen and M.A. Reichert. The computer algebra system simath. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*,

volume 378 of *LNCS*, pages 48–49. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[62] C. Böhm. Subduing self-application. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 108–122. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[63] Sabina Bonamico and Gianna Cioni. Embedding flexible control strategies into object oriented languages. In Teo Mora, editor, *Proceedings of the 6th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome, Italy, July 4–8, 1988)*, volume 357 of *LNCS*, pages 454–457. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[64] F. Bonomi, P.J. Fleming, and P. Steinberg. An adaptive regulator approach for the design of load sharing algorithms. In C.E. Veni Madhavan, editor, *Proceedings of the 9th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'89 (Bangalore, India, December 19-21, 1989)*, volume 405 of *LNCS*, pages 121–130. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[65] Martin Bossert. Decoding of generalized concatenated codes. In Teo Mora, editor, *Proceedings of the 6th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome, Italy, July 4–8, 1988)*, volume 357 of *LNCS*, pages 89–98. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[66] Martin Bossert. On decoding binary quadratic residue codes. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 60–68. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[67] A. Bowyer, J.H. Davenport, P.S. Milne, J.A. Padget, and A.F. Wallis. Applications of computer algebra in solid modelling. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 244–245. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[68] T. Boy de la Tour and R. Caferra. A formal approach to some usually informal techniques used in mathematical reasoning. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 402–406. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[69] F. Brackx and H. Serras. Boundary value problems for the laplacian in euclidean space solved by symbolic computation. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 208–215. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[70] R.J. Bradford. Hermite normal forms for integer matrices. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 315–316. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[71] R.J. Bradford and J.H. Davenport. Effective tests for cyclotomic polynomials. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 244–251. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[72] Franz J. Brandenburg. On the complexity of optimal drawings of graphs. In M. Nagl, editor, *Proceedings of the 15th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'89 (Castle Rolduc, The Netherlands, June 14-16, 1989)*, volume 411 of *LNCS*, pages 166–180. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[73] A. Brandstädt. The jump number problem for biconvex graphs and rectangle covers of rectangular regions. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 68–77. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[74] G. Brassard, C. Crépeau, and M. Yung. Everything in *np* can be argued in perfect zero-knowledge in a bounded number of rounds. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 123–136. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[75] V. Breazu-Tannen and J. Gallier. Polymorphic rewriting conserves algebraic strong normalization and confluence. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 137–150. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[76] Heinz Breu. An efficient algorithm for finding all maximal square blocks in a matrix. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 460–471. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[77] Ruth Breu and Elena Zucca. An algebraic compositional semantics of an object oriented notation with concurrency. In C.E. Veni Madhavan, editor, *Proceedings of the 9th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'89 (Bangalore, India, December 19-21, 1989)*, volume 405 of *LNCS*, pages 131–142. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[78] M. Bronstein. An algorithm for the integration of elementary functions. In J.H. Davenport, editor, *Proceedings of the 6th International Confer-*

ence on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987), volume 378 of *LNCS*, pages 491–497. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[79] M. Bronstein. Fast reduction of the risch differential equation. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 64–72. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[80] C. Brown, G. Cooperman, and L. Finkelstein. Solving permutation problems using rewriting systems. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 364–377. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[81] Cynthia A. Brown, Larry Finkelstein, and Jr. Purdom, Paul Walton. Backtrack searching in the presence of symmetry. In Teo Mora, editor, *Proceedings of the 6th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome, Italy, July 4–8, 1988)*, volume 357 of *LNCS*, pages 99–110. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[82] V. Bruyere. Completion of finite codes with finite deciphering delay. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 151–163. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[83] J.A. Brzozowski and J.C. Ebergen. Recent developments in the design of asynchronous circuits. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 78–94. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[84] Marco Bucci and Adina Di Porto. Fast serial-parallel multipliers. In Teo Mora, editor, *Proceedings of the 6th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome, Italy, July 4–8, 1988)*, volume 357 of *LNCS*, pages 111–121. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[85] J. Buchmann and M. Pohst. Computing a lattice basis from a system of generating vectors. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 54–63. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[86] J. Buchmann and M. Pohst. On the complexity of computing class groups of algebraic number fields. In Teo Mora, editor, *Proceedings of the 6th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome, Italy, July 4–8, 1988)*, volume 357 of *LNCS*, pages 122–130. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[87] H. Bunke and B. Haller. A parser for context free plex grammars. In M. Nagl, editor, *Proceedings of the 15th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'89 (Castle Rolduc, The Netherlands, June 14-16, 1989)*, volume 411 of *LNCS*, pages 136–150. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[88] Gerhard Buntrock and Albrecht Höne. Reversals and alternation. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 218–228. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[89] W.H. Burge and S.M. Watt. Infinite structures in scratchpad ii. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5,*

1987), volume 378 of *LNCS*, pages 138–148. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[90] Pedro J. Burillo and León A. González. Pseudometrics associated with fuzzy relations having weak properties. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 69–74. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[91] G. Butler and J. Cannon. Cayley, version 4: The user language. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 456–466. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[92] Jin-yi Cai and Lane A. Hemachandra. On the power of parity polynomial time. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 229–239. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[93] Jacques Calmet. Towards an expert system for error correcting codes: Secc. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 75–87. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[94] C. Calude and D. Vaida. Ehrenfeucht test set theorem and hilbert basis theorem: A constructive glimpse. In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume 379 of *LNCS*, pages 177–184. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[95] P. Camion. An iterative euclidean algorithm. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 88–128. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[96] Paul Camion. Majority decoding of large repetition codes for the r-ary symmetric channel. In Teo Mora, editor, *Proceedings of the 6th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome, Italy, July 4–8, 1988)*, volume 357 of *LNCS*, pages 458–466. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[97] J. Canny. Genralized characteristic polynomials. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 293–299. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[98] D. Cantone, V. Cutello, and A. Ferro. Decision procedures for elementary sublanguages of set theory. xiv: Three languages involving rank related constructs. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 407–422. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[99] Renato M. Capocelli, Luisa Gargano, and Ugo Vaccaro. Time bounds for broadcasting in bounded degree graphs. In M. Nagl, editor, *Proceedings of the 15th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'89 (Castle Rolduc, The Netherlands, June 14-16, 1989)*, volume 411 of *LNCS*, pages 19–33. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[100] F. Cardone. Relational semantics for recursive types and bounded quantification. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89*

(Stresa, Italy, July 11-15, 1989), volume 372 of *LNCS*, pages 164–178. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[101] Giuseppa Carrà Ferro. Gröbner bases and differential algebra. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 129–140. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[102] Giuseppa Carrà Ferro. Gröbner bases and differential algebra. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 129–140. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[103] Giuseppa Carrà Ferro. Some remarks on the differential dimension. In Teo Mora, editor, *Proceedings of the 6th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome, Italy, July 4–8, 1988)*, volume 357 of *LNCS*, pages 152–163. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[104] Giuseppa Carrà Ferro and Giovanni Gallo. A procedure to prove geometrical statements. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 141–150. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[105] G. Castagnoli. On the asymptotic badness of cyclic codes with block-lengths composed from a fixed set of prime factors. In Teo Mora, editor, *Proceedings of the 6th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome,*

Italy, July 4–8, 1988), volume 357 of *LNCS*, pages 164–168. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[106] C. Chaffy-Camus. An application of reduce to the approximation of $f(x, y)$. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 73–84. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[107] B.W. Char, A.R. Macnaughton, and P.A. Strooper. Discovering inequality conditions in the analytical solution of optimization problems. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 109–115. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[108] Pascale Charpin. Some applications of a classification of affine-invariant codes. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 151–160. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[109] Bernadette Charron-Bost. Measure of parallelism of distributed computations. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 434–445. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[110] B. Chazelle, H. Edelsbrunner, L.J. Guibas, and M. Sharir. A singly-exponential stratification scheme for real semi-algebraic varieties and its applications. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 179–193. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[111] Lin Chen. *nc* algorithms for circular-arc graphs. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 291–302. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[112] B. Chlebus, K. Diks, W. Rytter, and T. Szymacha. Parallel complexity of lexicographically first problems for tree-structured graphs (extended abstract). In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume 379 of *LNCS*, pages 185–195. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[113] B.S. Chlebus, K. Diks, T. Hagerup, and T. Radzik. New simulations between crcw prams. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 95–105. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[114] Marek Chrobak, Joseph Naor, and Mark B. Novick. Using bounded degree spanning trees in the design of efficient algorithms on claw-free graphs. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 147–162. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[115] Gérard Cohen. Non linear covering codes: A few results and conjectures. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 225–229. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[116] Attilio Colagrossi and Carla Limongelli. Big numbers p-adic arithmetic: A parallel approach. In Teo Mora, editor, *Proceedings of the 6th In-*

ternational Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome, Italy, July 4–8, 1988), volume 357 of *LNCS*, pages 169–180. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[117] G.E. Collins and J.R. Johnson. The probability of relative primality of gaussian integers. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 252–258. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[118] L. Colson. About primitive recursive algorithms. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 194–206. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[119] J.-L. Coquidé, M. Dauchet, and S. Tison. About connections between syntactical and computational complexity. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 105–115. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[120] B. Courcelle. The definability of equational graphs in monadic second-order logic. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 207–221. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[121] B. Courcelle. Monadic second-order logic and context-free graph-grammars. In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume 379 of *LNCS*, pages 18–34. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[122] B. Courcelle. The monadic second-order logic of graphs. In J. van Leeuwen, editor, *Proceedings of the 14th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'88 (Amsterdam, The Netherlands, June 15-17, 1988)*, volume 344 of *LNCS*, pages 30–53. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[123] B. Courteau and A. Montpetit. On binary codes of order 3. In Teo Mora, editor, *Proceedings of the 6th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome, Italy, July 4–8, 1988)*, volume 357 of *LNCS*, pages 467–470. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[124] R.G. Cowell and F.J. Wright. Catfact: Computer algebraic tools for applications of catastrophe theory. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 71–80. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[125] P. Crescenzi and A. Panconesi. Completeness in approximation classes. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 116–126. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[126] R. Creutzburg and M. Tasche. Number-theoretic transforms of prescribed length. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 161–162. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[127] F. Cucker, L.M. Pardo, M. Raimondo, T. Recio, and M.F. Roy. On the computation of the local and global analytic branches of a real algebraic curve. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain,*

June 15-19, 1987), volume 356 of *LNCS*, pages 161–181. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[128] K. Culik II and T. Harju. Dominoes and the regularity of dna splicing languages. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 222–233. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[129] Karel Culik II and Juhani Karhumäki. On the equivalence problem for deterministic multitape automata and transducers. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 468–479. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[130] Walter Cunto, Gustavo Lau, and Philippe Flajolet. Analysis of kdt-trees: kd-trees improved by local reorganisations. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 24–38. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[131] S.R. Czapor. Solving algebraic equations via buchberger's algorithm. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 260–269. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[132] Jurek Czyzowicz, Ivan Rival, and Jorge Urrutia. Galleries, light matchings and visibility graphs. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 316–324. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[133] C. Damm and Ch. Meinel. Separating completely complexity classes related to polynomial size ω-decision trees. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 127–136. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[134] P. Darondeau and P. Degano. Causal trees. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 234–248. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[135] A. Das, K. Thulasiraman, V.K. Agarwal, and K.B. Lakshmanan. t/s-diagnosable systems: A characterization and diagnosis algorithm. In M. Nagl, editor, *Proceedings of the 15th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'89 (Castle Rolduc, The Netherlands, June 14-16, 1989)*, volume 411 of *LNCS*, pages 34–45. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[136] Sajal K. Das, Narsingh Deo, and Sushil Prasad. Gate matrix layout revisited: Algorithmic performance and probabilistic analysis. In C.E. Veni Madhavan, editor, *Proceedings of the 9th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'89 (Bangalore, India, December 19-21, 1989)*, volume 405 of *LNCS*, pages 280–290. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[137] J. Dassow, J. Hromkovič, J. Karhumäki, B. Rovan, and A. Slobodová. On the power of synchronization in parallel computations. In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume 379 of *LNCS*, pages 196–206. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[138] Frank Dehne and Andrew Rau-Chaplin. Implementing data structures on a hypercube multiprocessor, and applications in parallel computa-

tional geometry. In M. Nagl, editor, *Proceedings of the 15th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'89 (Castle Rolduc, The Netherlands, June 14-16, 1989)*, volume 411 of *LNCS*, pages 316–329. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[139] Philippe Derome. A new search time update time tradeoff for the implicit dictionary. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 541–551. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[140] N. Dershowitz, S. Kaplan, and D.A. Plaisted. Infinite normal forms. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 249–262. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[141] Luc Devroye. Probabilistic analysis of algorithms and data structures. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 230–230. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[142] Matthew Díaz and Joseph O'Rourke. Computing the center of area of a polygon. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 171–182. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[143] C. Dicrescenzo and D. Duval. Algebraic extensions and algebraic closure in scratchpad ii. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 440–446. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[144] Volker Diekert. Word problems over traces which are solvable in linear time. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 168–180. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[145] Paul F. Dietz. Fully persistent arrays. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 67–74. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[146] Paul F. Dietz. Optimal algorithms for list indexing and subset rank. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 39–46. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[147] K. Diks, T. Hagerup, and W. Rytter. Optimal parallel algorithms for the recognition and colouring outerplanar graphs. In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume 379 of *LNCS*, pages 207–217. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[148] Hristo N. Djidjev, Andrzej Lingas, and Jörg-Rüdiger Sack. An $o(n \log n)$ algorithm for computing a link center in a simple polygon. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 96–107. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[149] Jürgen Doenhardt. Fault masking probabilities with single and multiple signature analysis. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science,*

STACS'89 (Paderborn, Germany, February 16-18, 1989), volume 349 of *LNCS*, pages 327–338. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[150] P. Dömösi, Z. ésik, and B. Imreh. On product hierarchies of automata. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 137–144. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[151] Vesselin Drensky and Piroska Lakatos. Monomial ideals, group algebras and error correcting codes. In Teo Mora, editor, *Proceedings of the 6th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome, Italy, July 4–8, 1988)*, volume 357 of *LNCS*, pages 181–188. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[152] L.S. Dulyan. The calculation of qcd triangular feynman graphs in the external gluonic field using reduce-2 system. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 172–173. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[153] Phan Minh Dung and Kanchana Kanchanasut. A natural semantics for logic programs with negation. In C.E. Veni Madhavan, editor, *Proceedings of the 9th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'89 (Bangalore, India, December 19-21, 1989)*, volume 405 of *LNCS*, pages 78–88. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[154] Arne Dür. On generalized minimum distance decoding. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 202–215. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[155] P. Durivs and P. Pudlák. On the communication complexity of planarity. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 145–147. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[156] Roberto Dvornicich and Carlo Traverso. Newton symmetric functions and the arithmetic of algebraically closed fields. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 216–224. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[157] H. Edelsbrunner, F.P. Preparata, and D.B. West. Tetrahedrizing point sets in three dimensions. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 315–331. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[158] Herbert Edelsbrunner. Combinatorial and computational results for line arrangements in space. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 591–591. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[159] H. Ehrig, P. Pepper, and F. Orejas. On recent trends in algebraic specification. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 263–288. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[160] Hartmut Ehrig, Werner Fey, Horst Hansen, Michael Löwe, and Dean Jacobs. Algebraic software development concepts for module and configuration families. In C.E. Veni Madhavan, editor, *Proceedings of the*

9th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'89 (Bangalore, India, December 19-21, 1989), volume 405 of *LNCS*, pages 181–192. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[161] Ch. Elkan. Logical characterizations of nonmonotonic tmss. In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume 379 of *LNCS*, pages 218–224. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[162] V.A. Eltekov and V.B. Shikalov. The methods for symbolic evaluation of determinants and their realization in the planner-analytic system. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 216–222. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[163] J. Engelfriet. Context-free nce graph grammars. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 148–161. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[164] J. Engelfriet and H.J. Hoogeboom. Automata with storage on infinite words. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 289–303. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[165] D. Eppstein and Z. Galil. Parallel algorithmic techniques for combinatorial computation. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 304–318. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[166] J. Farrés-Casals. Proving correctness of constructor implementations. In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume 379 of *LNCS*, pages 225–236. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[167] R.N. Federova, V.P. Gerdt, N.N. Govorun, and V.P. Shirikov. Computer algebra in physical research of joint institute for nuclear research. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 1–10. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[168] R.N. Fedorova and V.V. Kornyak. Computer algebra application for determining local symmetries of differential equations. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 174–175. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[169] D. Feldman, R. Impagliazzo, M. Naor, N. Nisan, S. Rudich, and A. Shamir. On dice and coins: Models of computation for random generation. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 319–340. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[170] P. Feldman and S. Micali. An optimal probabilistic algorithm for synchronous byzantine agreement. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 341–378. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[171] David Fernández-Baca and Mark A. Williams. Augmentation problems on hierarchically defined graphs. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data*

Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989), volume 382 of *LNCS*, pages 563–576. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[172] Ricardo Ferré. Fast integer multiplication by block recursive, number theoretical. In Teo Mora, editor, *Proceedings of the 6th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome, Italy, July 4–8, 1988)*, volume 357 of *LNCS*, pages 189–200. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[173] Alfredo Ferro and Giovanni Gallo. Gröbner bases, ritt's algorithm and decision procedures for algebraic theories. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 230–237. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[174] A. Ferscha. A matrix-approach for proving inequalities. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 403–411. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[175] M.A. Fiol and O. Serra. An algebraic model for the storage of data in parallel momories. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 238–246. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[176] T. Fischer. Towards a refined classification of geometric search and computation problems. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 426–437. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[177] J.P. Fitch and R.G. Hall. Symbolic computation and the finite element method. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 95–96. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[178] Philippe Flajolet, Bruno Salvy, and Paul Zimmermann. Lambda-upsilon-omega: An assistant algorithms analyzer. In Teo Mora, editor, *Proceedings of the 6th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome, Italy, July 4–8, 1988)*, volume 357 of *LNCS*, pages 201–212. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[179] J. Françon, B. Randrianarimanana, and R. Schott. Dynamic data structures with finite population: a combinatorial analysis. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 162–174. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[180] E. Freire, E. Gamero, E. Ponce, and L.G. Franquelo. An algorithm for symbolic computation of center manifolds. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 218–230. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[181] Christiane Frougny. Linear numeration systems, θ-developments and finite automata. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 144–155. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[182] Z. Fülöp and S. Vágvölgyi. Iterated deterministic top-down look-ahead. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory,*

FCT'89 (Szeged, Hungary, August 1989), volume 380 of *LNCS*, pages 175–184. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[183] D. Fussel, V. Ramachandran, and R. Thurimella. Finding triconnected components by local replacements. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 379–393. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[184] Donald Fussell and Ramakrishna Thurimella. Successive approximation in parallel graph algorithms. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 205–217. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[185] Z. Galil and K. Park. An improved algorithm for approximate string matching. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 394–404. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[186] A. Galligo, L. Pottier, and C. Traverso. Greater easy common divisor and standard basis completion algorithms. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 162–176. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[187] G. Gambosi, E. Nardelli, and M. Talamo. A pointer-free data structure for merging heaps and min-max heaps. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 405–422. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[188] Giorgio Gambosi, Marco Protasi, and Maurizio Talamo. An efficient implicit data structure for path testing and searching in rooted trees and forests. In C.E. Veni Madhavan, editor, *Proceedings of the 9th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'89 (Bangalore, India, December 19-21, 1989)*, volume 405 of *LNCS*, pages 252–266. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[189] K. Ganesan and Steven Homer. Complete problems and strong polynomial reducibilities. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 240–250. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[190] Danièle Gardy, Philippe Flajolet, and Claude Puech. On the performance of orthogonal range queries in multiattribute and doubly chained trees. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 218–229. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[191] T. Gateva-Ivanova. Algorithmic determination of the jacobson radical of monomial algebras. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 355–364. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[192] Tatiana Gateva-Ivanova. Global dimension of associative algebras. In Teo Mora, editor, *Proceedings of the 6th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome, Italy, July 4–8, 1988)*, volume 357 of *LNCS*, pages 213–229. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[193] K.O. Geddes and G.H. Gonnet. A new algorithm for computing symbolic limits using hierarchical series. In P. Gianni, editor, *Proceedings*

of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988), volume 358 of *LNCS*, pages 490–495. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[194] K.O. Geddes, G.H. Gonnet, and T.J. Smedley. Heuristic methods for operations with algebraic numbers. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 475–480. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[195] Willi Geiselmann and Dieter Gollmann. Symmetry and duality in normal basis multiplication. In Teo Mora, editor, *Proceedings of the 6th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome, Italy, July 4–8, 1988)*, volume 357 of *LNCS*, pages 230–238. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[196] D. Geniet and L. Thimonier. Using generating functions to compute concurrency. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 185–196. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[197] V.P. Gerdt, N.A. Kostov, and Z.T. Kostova. Computer algebra and computation of puiseux expansions of algebraic functions. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 206–207. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[198] V.P. Gerdt, A.B. Shabat, S.I. Svinolupov, and A.Yu. Zharkov. Computer algebra application for investigating integrability of nonlinear evolution systems. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 81–92. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[199] V.P. Gerdt and A.Yu. Zharkov. Computer classification of integrable seventh order mkdv-like equations. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 93–94. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[200] Robert Y. Geva and Azaria Paz. Toward a complete representation of graphoids in graphs. In M. Nagl, editor, *Proceedings of the 15th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'89 (Castle Rolduc, The Netherlands, June 14-16, 1989)*, volume 411 of *LNCS*, pages 46–62. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[201] P. Gianni. Properties of gröbner bases under specializations. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 293–297. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[202] P. Gianni, V. Miller, and B. Trager. Decomposition of algebras. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 300–308. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[203] Patrizia Gianni and Teo Mora. Algebraic solution of systems of polynomial equations using gröbner bases. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 247–257. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[204] A. Gil-Luezas. A logic for nondeterministic functional programs. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 197–208. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[205] D.M. Gillies and B.W. Char. Practical aspects of symbolic integration over $q(x)$. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 463–464. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[206] M. Giusti. Complexity of standard bases in projective dimension zero. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 333–335. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[207] M. Giusti, D. Lazard, and A. Valibouze. Algebraic transformations of polynomial equations, symmetric polynomials and elimination. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 309–315. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[208] Michael T. Goodrich, Colm Ó'Dúnlaing, and Chee K. Yap. Constructing the voronoi diagram of a set of line segments in parallel. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 12–23. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[209] Michael T. Goodrich and Jack Scott Snoeyink. Stabbing parallel segments with a convex polygon. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 231–242. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[210] M.G. Gouda, R.R. Howell, and L.E. Rosier. System simulation and the sensitivity of self-stabilization (extended abstract). In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume

379 of *LNCS*, pages 249–258. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[211] E. Grädel. Complexity of formula classes in first order logic with functions. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 224–233. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[212] B. Graw. Decision problems and coxeter groups. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 209–223. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[213] M. Grieco and B. Zucchetti. How to decide whether a polynomial ideal is primary or not. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 258–268. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[214] D.Yu. Grigoriev. Complexity of computing the characters and the genre of a system of exterior differential equations. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 534–543. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[215] D.Yu. Grigoriev. Complexity of quantifier elimination in the theory of ordinary differential equations. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 11–25. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[216] J.F. Groote and F. Vaandrager. Structured operational semantics and bisimulation as a congruence. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 423–438. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[217] Jeremy Gunawardena. Deducing causal relationships in ccs. In C.E. Veni Madhavan, editor, *Proceedings of the 9th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'89 (Bangalore, India, December 19-21, 1989)*, volume 405 of *LNCS*, pages 161–170. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[218] N.I. Gurin. Schoonschip for computing of gravitino interaction cross sections in $n = 2$ supergravity. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 116–117. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[219] J. Gutiérrez, T. Recio, and C. Ruiz de Velesco. Polynomial decomposition algorithm of almost quadratic complexity. In Teo Mora, editor, *Proceedings of the 6th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome, Italy, July 4–8, 1988)*, volume 357 of *LNCS*, pages 471–475. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[220] Wolfgang Gutjahr, Emo Welzl, and Gerhart Wöginger. Polynomial graph-colorings. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 108–119. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[221] A. Habel. Graph-theoretic properties compatible with graph derivations. In J. van Leeuwen, editor, *Proceedings of the 14th International Workshop on Graph-Theoretic Concepts in Computer Science,*

WG'88 (Amsterdam, The Netherlands, June 15-17, 1988), volume 344 of *LNCS*, pages 11–29. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[222] Annegret Habel and Hans-Jörg Kreowski. Filtering hyperedge-replacement languages through compatible properties. In M. Nagl, editor, *Proceedings of the 15th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'89 (Castle Rolduc, The Netherlands, June 14-16, 1989)*, volume 411 of *LNCS*, pages 107–120. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[223] T. Hagerup and M. Nowak. Parallel retrievel of scattered information. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 439–450. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[224] D. Harel. A thesis for bounded concurrency. In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume 379 of *LNCS*, pages 35–48. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[225] P.H. Hartel. The average size of ordered binary subgraphs. In J. van Leeuwen, editor, *Proceedings of the 14th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'88 (Amsterdam, The Netherlands, June 15-17, 1988)*, volume 344 of *LNCS*, pages 327–351. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[226] J. Hartmanis and D. Ranjan. Space bounded computations: Review and new separation results. In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume 379 of *LNCS*, pages 49–66. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[227] J. Håstad. Tensor rank is np-complete. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 451–460. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[228] Joos Heintz. On the computational complexity of polynomials and bilinear mappings — a survey. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 269–300. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[229] L.A. Hemachandra, A. Hoene, and D. Siefkes. Polynomial-time functions generate sat: on p-splinters. In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume 379 of *LNCS*, pages 259–269. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[230] Lane A. Hemachandra and Sanjay Jain. On the limitations of locally robust positive reductions. In C.E. Veni Madhavan, editor, *Proceedings of the 9th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'89 (Bangalore, India, December 19-21, 1989)*, volume 405 of *LNCS*, pages 193–203. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[231] Werner Henkel. Multiple error correction with analog codes. In Teo Mora, editor, *Proceedings of the 6th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome, Italy, July 4–8, 1988)*, volume 357 of *LNCS*, pages 239–249. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[232] M. Hennessy. A proof system for communicating processes with value-passing. In C.E. Veni Madhavan, editor, *Proceedings of the 9th Conference on Foundations of Software Technology and Theoretical Computer*

Science, FSTTCS'89 (Bangalore, India, December 19-21, 1989), volume 405 of *LNCS*, pages 325–339. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[233] Rolf Hennicker. Observational implementations. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 59–71. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[234] Andreas Henrich, Hans-Werner Six, and Peter Widmayer. Paging binary trees with external balancing. In M. Nagl, editor, *Proceedings of the 15th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'89 (Castle Rolduc, The Netherlands, June 14-16, 1989)*, volume 411 of *LNCS*, pages 260–276. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[235] J.P.G. Henry and M. Merle. Complexity of computation of embedded resolution of algebraic curves. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 381–390. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[236] I.R. Hentzel and D.J. Pokrass. Verification of non-identities in algebras. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 496–507. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[237] Miki Hermann. Chain properties of rule closures. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 339–347. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[238] U. Heuter. Generalized definite tree languages. In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Sympo-*

sium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989), volume 379 of *LNCS*, pages 270–280. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[239] K. Hinrichs, J. Nievergelt, and P. Schorn. A sweep algorithm and its implementation. In J. van Leeuwen, editor, *Proceedings of the 14th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'88 (Amsterdam, The Netherlands, June 15-17, 1988)*, volume 344 of *LNCS*, pages 442–457. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[240] Friedhelm Hinz. Classes of picture languages that cannot be distinguished in the chain code concept and deletion of redundant retreats. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 132–143. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[241] D.S. Hochbaum and J.G. Shanthikumar. The complexity of nonlinear separable optimization. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 461–472. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[242] R. Holte, L. Rosier, I. Tulchinsky, and D. Varvel. Pinwheel scheduling with two distinct numbers. In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume 379 of *LNCS*, pages 281–290. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[243] Michael E. Houle, Hiroshi Imai, Keiko Imai, and Jean-Marc Robert. Weighted orthogonal linear l_∞-approximation and applications. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada,*

August 17-19, 1989), volume 382 of *LNCS*, pages 183–191. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[244] R.R. Howell, L.E. Rosier, and Hsu-Chun Yen. Normal and sinkless petri nets. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 234–243. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[245] U. Huckenbeck. On paths in search or decision trees which require almost worst-case time. In J. van Leeuwen, editor, *Proceedings of the 14th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'88 (Amsterdam, The Netherlands, June 15-17, 1988)*, volume 344 of *LNCS*, pages 406–423. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[246] H.B. Hunt III and R.E. Stearns. On the complexity of satisfiability problems for algebraic structures. In Teo Mora, editor, *Proceedings of the 6th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'88 (Rome, Italy, July 4–8, 1988)*, volume 357 of *LNCS*, pages 250–258. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[247] Yie-Huei Hwang, Ruei-Chuan Chang, and Hung-Yi Tu. Finding all shortest path edge sequences on a convex polyhedron. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 251–266. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[248] Oscar H. Ibarra, Tao Jiang, and Hui Wang. Parallel parsing on a one-way linear array of finite-state machines. In C.E. Veni Madhavan, editor, *Proceedings of the 9th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'89 (Bangalore, India, December 19-21, 1989)*, volume 405 of *LNCS*, pages 291–300. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[249] Oscar H. Ibarra and Michael A. Palis. An efficient all-parses systolic algorithm for general context-free parsing. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 403–419. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[250] V.A. Ilyin and A.P. Kryukov. Dimreg - the package for calculations in the dimensional regularization with 4-dimensional γ^5-matrix in quantum field theory. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 225–232. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[251] Hideki Imai and Tsutomu Matsumoto. Coding theory and its applications in japan. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 301–305. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[252] N. Immerman. Descriptive and computational complexity. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 244–245. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[253] Giuseppe F. Italiano, Alberto Marchetti Spaccamela, and Umberto Nanni. Dynamic data structures for series parallel digraphs. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 352–372. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[254] S. Iwanowski. Linear time algorithms for testing approximate congruence in the plane. In J. van Leeuwen, editor, *Proceedings of the 14th In-*

ternational Workshop on Graph-Theoretic Concepts in Computer Science, WG'88 (Amsterdam, The Netherlands, June 15-17, 1988), volume 344 of *LNCS*, pages 213–228. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[255] S. Iwanowski. Testing approximate symmetry in the plane is *np*-hard. In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume 379 of *LNCS*, pages 291–304. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[256] K.-U. Jahn. Computer algebra and numerical convergence. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 204–205. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[257] B. Jamison and S. Olariu. A linear-time recognition algorithm for p_4-reducible graphs. In C.E. Veni Madhavan, editor, *Proceedings of the 9th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'89 (Bangalore, India, December 19-21, 1989)*, volume 405 of *LNCS*, pages 1–19. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[258] Petr Jančar. Decidability of weak fairness in petri nets. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 446–457. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[259] R. Jayakumar, K. Thulasiraman, and M.N.S. Swamy. $o(n^2)$ algorithms for graph planarization. In J. van Leeuwen, editor, *Proceedings of the 14th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'88 (Amsterdam, The Netherlands, June 15-17, 1988)*, volume 344 of *LNCS*, pages 352–377. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[260] Helge Elbrond Jensen and Tom Hoholdt. Binary sequences with good correlation properties. In Llorenç Huguet and Alain Poli, editors, *Proceedings of the 5th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'87 (Menorca, Spain, June 15-19, 1987)*, volume 356 of *LNCS*, pages 306–320. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona-Budapest, 1989.

[261] Y.J. Jiang. An autoepistemic logical view of knowledge base. In C.E. Veni Madhavan, editor, *Proceedings of the 9th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'89 (Bangalore, India, December 19-21, 1989)*, volume 405 of *LNCS*, pages 68–77. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[262] Bengt Jonsson and Joachim Parrow. Deciding bisimulation equivalences for a class of non-finite-state programs. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 421–433. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[263] Mathai Joseph. Time and real-time in programs. In C.E. Veni Madhavan, editor, *Proceedings of the 9th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'89 (Bangalore, India, December 19-21, 1989)*, volume 405 of *LNCS*, pages 312–324. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[264] C. Jousselin and J.-P. Moskowitz. Memory and algebra. In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume 379 of *LNCS*, pages 305–313. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[265] S.P. Jukna. The effect of null-chains on the complexity of contact schemes. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation*

Theory, FCT'89 (Szeged, Hungary, August 1989), volume 380 of *LNCS*, pages 246–256. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[266] A. Juozapavičius. Symbolic computation for witt rings. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 271–273. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[267] B. Just. Integer relations among algebraic numbers. In *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume 379 of *LNCS*, pages 314–320. 1989.

[268] H. Kaeslin. Application of graph theory to topology generation for logic gates. In J. van Leeuwen, editor, *Proceedings of the 14th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'88 (Amsterdam, The Netherlands, June 15-17, 1988)*, volume 344 of *LNCS*, pages 304–316. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[269] M. Kalkbrener. Solving systems of algebraic equations by using gröbner bases. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 282–292. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[270] E. Kaltofen, M.S. Krishnamoorthy, and B.D. Saunders. Mr. smith goes to las vegas: Randomized parallel computation of the smith normal form of polynomial matrices. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 317–322. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[271] E. Kaltofen and L. Yagati. Improved sparse multivariate polynomial interpolation algorithm. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages

467–474. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[272] Bala Kalyanasundaram and Georg Schnitger. Rounds versus time for the two person pebble game. In B. Monien and R. Cori, editors, *Proceedings of the 6th Annual Symposium on Theoretical Aspects of Computer Science, STACS'89 (Paderborn, Germany, February 16-18, 1989)*, volume 349 of *LNCS*, pages 517–529. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[273] Ravi Kannan. The frobenius problem. In C.E. Veni Madhavan, editor, *Proceedings of the 9th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'89 (Bangalore, India, December 19-21, 1989)*, volume 405 of *LNCS*, pages 242–251. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[274] Viktor N. Kasyanov. Annotated program transformations. In C.E. Veni Madhavan, editor, *Proceedings of the 9th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'89 (Bangalore, India, December 19-21, 1989)*, volume 405 of *LNCS*, pages 171–180. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[275] V.L. Katkov and M.D. Popov. Computerised system of analytic transformations for analysing of differential equations. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 179–185. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[276] C. Kazasov. Laplace transformations in reduce 3. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 132–133. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[277] Yan Ke and Joseph O'Rourke. Computing the kernel of a point set in a polygon. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89*

(Ottawa, Canada, August 17-19, 1989), volume 382 of *LNCS*, pages 135–146. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[278] J. Mark Keil and Carl A. Gutwin. The delaunay triangulation closely approximates the complete euclidean graph. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 47–56. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[279] C.M. Kenyon-Mathieu and J.S. Vitter. General methods for the analysis of the maximal size of dynamic data structures. In G. Ausiello, M. Dezani-Ciancaglini, and S. Ronchi Della Rocca, editors, *Proceedings of the 16th International Colloquium on Automata, Languages and Programming, ICALP'89 (Stresa, Italy, July 11-15, 1989)*, volume 372 of *LNCS*, pages 473–487. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[280] Samir Khuller. Parallel algorithms for the subgraph homeomorphism problem. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 303–315. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[281] Sam Kim, Robert McNaughton, and Robert McCloskey. A polynomial time algorithm for the local testability problem of deterministic finite automata. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 420–436. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[282] E. Kinber and T. Zeugmann. Monte-carlo inference and its relations to reliable frequency identification. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 257–266. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[283] David G. Kirkpatrick and Stephen K. Wismath. Weighted visibility graphs of bars and related flow problems. In F. Dehne, J.-R. Sack, and N. Santoro, editors, *Proceedings of the Workshop on Algorithms and Data Structures, WADS'89 (Ottawa, Canada, August 17-19, 1989)*, volume 382 of *LNCS*, pages 325–334. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[284] R. Klein. Voronoi diagrams in the moscow metric. In J. van Leeuwen, editor, *Proceedings of the 14th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'88 (Amsterdam, The Netherlands, June 15-17, 1988)*, volume 344 of *LNCS*, pages 434–441. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[285] Rolf Klein. Combinatorial properties of abstract voronoi diagrams. In M. Nagl, editor, *Proceedings of the 15th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'89 (Castle Rolduc, The Netherlands, June 14-16, 1989)*, volume 411 of *LNCS*, pages 356–369. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[286] D.M. Klimov, V.M. Rudenko, and V.F. Zhuravlev. Application of lie group and computer algebra to nonlinear mechanics. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 97–106. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[287] H. Kobayashi, S. Moritsugu, and R.W. Hogan. Solving systems of algebraic equations. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 139–149. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[288] J.N. Kok. An iterative metric fully abstract semantics for nondeterministic dataflow (extended abstract). In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik,*

Poland, August 28 - September 1, 1989), volume 379 of *LNCS*, pages 321–330. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[289] M.V. Kondratéva and E.V. Pankratév. A recursive algorithm for computation of the hilbert polynomial. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 365–375. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[290] E. Korach and Z. Ostfeld. Dfs tree construction. In J. van Leeuwen, editor, *Proceedings of the 14th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'88 (Amsterdam, The Netherlands, June 15-17, 1988)*, volume 344 of *LNCS*, pages 87–106. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[291] I. Korec. Semilinear real-time systolic trellis automata. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 267–276. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[292] V.E. Kotov and L.A. Cherkasova. Concurrent nondeterministic processes: Adequacy of structure and behaviour. In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume 379 of *LNCS*, pages 67–87. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[293] T. Kovács. Inducibility of the composition of frontier-to-root tree transformations. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 277–286. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[294] W. Kowalczyk. Complexity of decision problems under incomplete information. In A. Kreczmar and G. Mirkowska, editors, *Proceedings of the 14th International Symposium on Mathematical Foundations of Computer Science, MFCS'89 (Porabka-Kozubnik, Poland, August 28 - September 1, 1989)*, volume 379 of *LNCS*, pages 331–337. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[295] M. Krause and S. Waack. On oblivious branching programs of linear length. In J. Csirik, J. Demetrovics, and F. Gécseg, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'89 (Szeged, Hungary, August 1989)*, volume 380 of *LNCS*, pages 287–296. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[296] H. Kredel. Primary ideal decomposition. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 270–281. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[297] H. Kredel. Software development for computer algebra. In P. Gianni, editor, *Proceedings of the 1988 International Symposium on Symbolic and Algebraic Computation, ISSAC'88 (Rome, Italy, July 1988)*, volume 358 of *LNCS*, pages 447–455. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[298] A.P. Kryukov and A.Ya. Rodionov. Cts - algebraic debugging system for reduce programs. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 233–243. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[299] K. Kusche, B. Kutzler, and H. Mayr. Implementation of a geometry theorem proving package in scratchpad ii. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 246–257. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.

[300] G. Labahn and S. Cabay. Matrix-padé fractions. In J.H. Davenport, editor, *Proceedings of the 6th International Conference on Computer Algebra, EUROCAL'87 (Leipzig, GDR, June 2-5, 1987)*, volume 378 of *LNCS*, pages 438–449. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1989.