References

[1] I.J. Aalbersberg and H.J. Hoogeboom. Decision problems for regular trace languages. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 250–259. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[2] F.M. Ablayev. Possibilities of probabilistic on-line counting machines. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 1–4. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[3] St. Abramowski and H. Müller. Searching connected components in very large grid graphs. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 118–130. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[4] A. Aggarwal and J.S. Vitter. The i/o complexity of sorting and related problems. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 467–478. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[5] G.P. Agibalov. Functional systems on semilattices. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 5–9. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[6] M. Ajmone Marsan and G. Chiola. On petri nets with deterministic and exponentially distributed firing times. In Grzegorz Rozenberg, editor, *Advances in Petri Nets 1987*, volume 266 of *LNCS*, pages

132–145. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[7] M. Ajmone Marsan, G. Chiola, and A. Fumagalli. An accurate performance model of csma/cd bus lan. In Grzegorz Rozenberg, editor, *Advances in Petri Nets 1987*, volume 266 of *LNCS*, pages 146–161. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[8] V.B. Alekseyev. Recognition of properties in k-valued logic and approximate algorithms. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 10–13. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[9] A.A. Alexanyan. Linearized disjunctive normal forms of boolean functions. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 14–16. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[10] Ju.A. Alpin, B.S. Kotchkarev, and R.G. Mubarakzianov. On a stable generating of random sequences by probabilistic automata. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 17–20. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[11] S.V. Alyoshin. Automata classes induced by post classes. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 21–23. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[12] A.E. Andreev. Effective lower bounds for complexity of some classes of schemes. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, edi-

tors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 24–29. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[13] A.V. Anisimov and V.A. Oleshchuk. Stable finite automata mappings and church-rosser systems. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 30–33. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[14] M. Arfi. Polynomial operations on rational languages. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 198–206. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[15] M.M. Arslanov. The recursion theorem, approximations, and clasifying index sets of recursively enumerable sets. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 34–37. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[16] V. Arvind and S. Biswas. Expressibility of first order logic with a nondeterministic inductive operator. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 323–335. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[17] V. Arvind and S. Biswas. On certain bandwidth restricted versions of the satisfiability problem of propositional cnf formulas. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages

456–469. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[18] A.D. Astakhov. Duality of functions and data in algorithms description. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 38–40. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[19] E. Astesiano and G. Reggio. Comparing direct and continuation semantics styles for concurrent languages. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 311–322. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[20] F. Aurenhammer and H. Imai. Geometric relations among voronoi diagrams. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 53–65. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[21] G.V. Babikov. On direct methods of realization of normal algorithms by turing machines. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, page 41. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[22] D.N. Babin. Verbal operation on automaton. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 42–44. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[23] J.L. Baer. Modelling architectural features with petri nets. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Applications and relationships to other models of concurrency (Part II) (Bad Honnef, September 1986)*, volume 255 of *LNCS*, pages 258–277. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[24] J.C.M. Baeten and R.J. van Glabbeek. Another look at abstraction in process algebra. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 84–94. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[25] J.C.M. Baeten and R.J. van Glabbeek. Merge and termination in process algebra. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 153–172. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[26] R. Bagrodia. A distributed algorithm to implement n-party rendezvous. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 138–152. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[27] J.L. Balcázar. Self-reducibility. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 136–147. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[28] R. Bar-Yehuda, S. Kutten, Y. Wolfstahl, and S. Zaks. Making distributed spanning tree algorithms fault-resilient. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science,*

STACS'87 (Passau, Germany, February 19-21, 1987), volume 247 of *LNCS*, pages 432–444. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[29] A.S. Barashko. The new way of probabilistic compact testing. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 45–47. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[30] D.A. Barrington and D. Thérien. Non-uniform automata over groups. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 163–173. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[31] M.Yu. Baryshev, L.P. Zhil'tzova, and A.A. Markov. Computational problems in alphabetic coding theory. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 48–50. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[32] M. Beaudry. Testing membership in commutative transformation semigroups. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 542–549. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[33] D. Beauquier. Minimal automaton of a rational cover. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 174–189. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[34] C. Beierle and A. Voß. On implementations of loose abstract data type specifications and their vertical composition. In F.J. Branden-

burg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 245–259. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[35] D. Bert, P. Drabik, and R. Echahed. Lpg: A generic, logic and functional programming language. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 468–469. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[36] G. Berthelot. Transformations and decompositions of nets. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Central models and their properties (Part I) (Bad Honnef, September 1986)*, volume 254 of *LNCS*, pages 359–376. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[37] H. Bertling, H. Ganzinger, and H. Baumeister. Cec. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, page 470. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[38] A. Bertoni, M. Goldwurm, and N. Sabadini. Computing the counting function of context-free languages. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 169–179. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[39] E. Best. Cosy: Its relation to nets and to csp. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Applications and relationships to other models of concurrency*

(Part II) (Bad Honnef, September 1986), volume 255 of *LNCS*, pages 416–440. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[40] E. Best. Structure theory of petri nets: the free choice hiatus. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Central models and their properties (Part I) (Bad Honnef, September 1986)*, volume 254 of *LNCS*, pages 168–205. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[41] S. Bhaskar and G.N. Buckley. Computations in undistinguished networks. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 124–137. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[42] M. Bidoit, F. Capy, C. Choppy, M.-A. Choquet, S. Kaplan, F. Schlienger, and F. Voisin. Asspegique - an integrated specification environment. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, page 471. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[43] H.A. Blair and V.S. Subrahmanian. Paraconsistent logic programming. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 340–360. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[44] S.A. Bogomolov. On the synthesis of "irredundant" automata from a finite set of experiments. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 51–52. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[45] A.A. Bolotov. On the equivalence problem of states for cellular automata. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 53–54. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[46] R.V. Book. Towards a theory of relativizations: Positive relativizations. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 1–21. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[47] W. Bousdira and J.-L. Remy. Reveur4: A laboratory for conditional rewriting. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 472–473. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[48] J.D. Brock. Finding the largest empty rectangle on a grated surface. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 66–75. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[49] L. Budach. Arsenals and lower bounds. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 55–64. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[50] R.G. Bukharajev, A.I. Enikeev, and I.I. Makarov. Chain-like model of programs communication. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 65–67. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[51] R.G. Bukharajev and I.R. Nasirov. Structor automata. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 68–73. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[52] B.A. Buyevich. On *a*-completeness for some classes of bounded determinate functions. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 74–77. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[53] J. Cai. Probability one separation of the boolean hierarchy. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 148–158. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[54] J. Cai and G.E. Meyer. On the complexity of graph critical uncolorability. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 394–403. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[55] H. Carstensen. Decidability questions for fairness in petri nets. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 396–407. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[56] G.E. Cejtlin and E.L. Jushchenko. Structure synthesis of parallel programs (methodology and tools). In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June*

1987), volume 278 of *LNCS*, pages 78–81. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[57] K.M. Chandy and Jayadev Misra. Parallelism and programming. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 173–194. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[58] B.S. Chlebus, M. Chrobak, and K. Diks. Saturating flows in networks. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 82–91. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[59] C. Choffrut and C. Duboc. A star-height problem in free monoids with partial commutations. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 190–201. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[60] M.P. Chytil and J. Demner. Panic mode without panic. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 260–268. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[61] I.P. Cuhrov. On the number of dnf maximal relatively arbitrary measures of complexity. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 92–94. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[62] K. Culik II and M. Linna. The equivalence problem for n-tape finite automata with simple cycles. In Kesav V. Nori, editor, *Proceedings of the*

7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987), volume 287 of *LNCS*, pages 15–25. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[63] M. Dao, M. Habib, J.P. Richard, and D. Tallot. Cabri, an interactive system for graph manipulation. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 58–67. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[64] J. Dassow and H. Jürgensen. Soliton automata. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 95–102. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[65] F. Dehne and J.-R. Sack. Separability of sets of polygons. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 237–251. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[66] Ramesh Dewangan and C. Pandu Rangan. A simple implementation of warshall's algorithm on a vlsi chip. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 131–145. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[67] G. Di Battista and E. Nardelli. An algorithm for testing planarity of hierarchical graphs. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 277–289. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[68] M. Diaz. Petri net based models in the specification and verification of protocols. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Applications and relationships to other models of concurrency (Part II) (Bad Honnef, September 1986)*, volume 255 of *LNCS*, pages 135–170. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[69] V. Diekert. On the knuth-bendix completion for concurrent processes. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 42–53. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[70] V. Diekert. Some remarks on presentations by finite church-rosser thue systems. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 272–285. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[71] M. Dietzfelbinger. Lower bounds for sorting of sums. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 457–466. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[72] K. Doshi and P. Varman. Efficient graph algorithms using limited communication on a fixed-size array of processors. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 76–87. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[73] S. Drees, D. Gomm, H. Plünnecke, W. Reisig, and R. Walter. Bibliography of petri nets. In Grzegorz Rozenberg, editor, *Advances in Petri Nets 1987*, volume 266 of *LNCS*, pages 309–451. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[74] P. Dublish and S.N. Maheshwari. An $o(n^2)$ algorithm for fan-out free query optimization. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 242–264. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[75] P. Dybjer. Inverse image analysis. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 21–30. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[76] H. Edelsbrunner, G. Rote, and E. Welzl. Testing the necklace condition for shortest tours and optimal factors in the plane. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 364–375. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[77] A.I. Enikeev. On development of dialogue concurrent systems. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 103–108. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[78] S.M. Ermakov and B.B. Pokhodzey. Discrete analogue of the neumann method is not optimal. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 109–112. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[79] S.M. Ermakov and A.S. Rasulov. A simplest probability model of asynchronous iterations. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 113–115. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[80] Yu.L. Ershov, S.S. Goncharov, and D.I. Sviridenko. Semantic foundations of programming. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 116–122. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[81] N.V. Evtushenko. Conditions for existence of nontrivial parallel decompositions of sequential machines. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 123–126. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[82] U. Faigle and G. Gierz. The bandwidth of planar distributive lattices. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 94–105. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[83] F. Feldbrugge and K. Jensen. Petri net tool overview 1986. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Applications and relationships to other models of concurrency (Part II) (Bad Honnef, September 1986)*, volume 255 of *LNCS*, pages 20–61. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[84] C. Fernández. Non-sequential processes. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Central models and their properties (Part I) (Bad Honnef, September 1986)*, volume 254 of *LNCS*, pages 95–115. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[85] A. Finkel. A generalization of the procedure of karp and miller to well structured transition systems. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 499–508. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[86] L. Fribourg. Slog - a logic interpreter for equational clauses. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 479–480. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[87] A.B. Frolov. On the digital system diagnostics under uncertainty. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 127–131. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[88] N.Z. Gabbasov. The implicating vector problem and its applications to probabilistic and linear automata. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 132–136. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[89] G. Gambosi, J. Nešetřil, and M. Talamo. Posets, boolean representations and quick path searching. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 404–424. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[90] E. Gannett, S.C. Kothari, and H.-C. Yen. On optimal parallelization of sorting networks. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 195–206. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[91] H. Ganzinger. Ground term confluence in parametric conditional equational specifications. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany,*

February 19-21, 1987), volume 247 of *LNCS*, pages 286–298. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[92] E.E. Gasanov. Some asymptotic evaluations of complexity of information searching. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 137–139. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[93] I.B. Gashkov and V.M. Sidelnikov. Codes, connected with a fraction linear functions group and their decoding. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 145–149. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[94] S.B. Gashkov. On the complexity of approximate realization of continuous functions by schemes and formulas in continuous bases. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 140–144. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[95] D. Geidmanis. On the capabilities of alternating and nondeterministic multitape automata. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 150–154. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[96] H.J. Genrich. Predicate/transition nets. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Central models and their properties (Part I) (Bad Honnef, September 1986)*, volume 254 of *LNCS*, pages 207–247. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[97] R. Gerth and A. Boucher. A timed failures model for extended communicating processes. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 95–114. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[98] J.G. Geske, D.T. Huynh, and A.L. Selman. A hierarchy theorem for almost everywhere complex sets with application to polynomial complexity degrees. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 125–135. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[99] A. Gibbons and W. Rytter. Fast parallel algorithms for optimal edge-colouring of some tree-structured graphs. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 155–162. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[100] N. Girard. An interactive, incremental and portable computer algebra system for λ-calculus and combinatory logic based on video edition and rewriting techniques. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, page 474. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[101] C. Girault, C. Chatelain, and S. Haddad. Specification and properties of a cache coherence protocol model. In Grzegorz Rozenberg, editor, *Advances in Petri nets 1987*, volume 266 of *LNCS*, pages 1–20. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[102] M. Goldsmith, A. Cox, and G. Barrett. An algebraic transformation system for occam programs. In F.J. Brandenburg, G. Vidal-Naquet,

and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, page 481. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[103] U. Goltz. Synchronic distance. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Central models and their properties (Part I) (Bad Honnef, September 1986)*, volume 254 of *LNCS*, pages 338–358. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[104] S. Graf and J. Sifakis. Readiness semantics for regular processes with silent actions. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 115–125. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[105] David Gries. Modules for re-use. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 373–375. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[106] M.I. Grinchuk. On the complexity of elementary periodical functions realized by switching circuits. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 163–166. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[107] H.-D.O.F. Gronau. Efficient algorithmic construction of designs. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 167–171. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[108] I.S. Grunsky. A characterization of sequential machines by means of their behaviour fragments. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 180–184. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[109] Yuri Gurevich. Algebraic operational semantics. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 1–2. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[110] I. Gutman. Graphs and graph polynomials of interest in chemistry. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 177–187. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[111] A. Habel and H.J. Kreowski. Some structural aspects of hypergraph languages generated by hyperedge replacement. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 207–219. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[112] S. Haddad and C. Girault. Algebraic structure of flows of a regular coloured net. In Grzegorz Rozenberg, editor, *Advances in Petri nets 1987*, volume 266 of *LNCS*, pages 73–88. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[113] T. Hafer and W. Thomas. Computation tree logic *ctl** and path quantifiers in the monadic theory of the binary tree. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 269–279. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[114] T. Hagerup, M. Chrobak, and K. Diks. Parallel 5-colouring of planar graphs. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 304–313. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[115] R.C. Hansdah and L.M. Patnaik. Weak consistency of read-only transactions. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 265–281. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[116] J. Hartmanis. Some observations about *np* complete sets. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 185–196. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[117] D. Helmbold and E. Mayr. Applications of parallel scheduling to perfect graphs. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 188–203. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[118] A. Hemmerling. Three-dimensional traps and barrages for cooperating automata (extended abstract). In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 197–203. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[119] S. Hölldobler. A unification algorithm for confluent theories. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 31–41. Springer-

Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[120] Rodney R. Howell and Louis E. Rosier. Recent results on the complexity of problems related to petri nets. In Grzegorz Rozenberg, editor, *Advances in Petri nets 1987*, volume 266 of *LNCS*, pages 45–72. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[121] R.R. Howell, D.T. Huynh, L.E. Rosier, and H.C. Yen. On the complexity of containment, equivalence and reachibility for finite and 2-dimensional vector addition systems with states. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 360–370. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[122] R.R. Howell and L.E. Rosier. Completeness results for reachability, containment, and equivalence with respect to conflict-free vector replacement systems. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 509–520. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[123] J. Hromkovič. Reversal complexity of multicounter and multihead machines. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 159–168. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[124] J. Hsiang and M. Rusinowitch. On word problems in equational theories. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 54–71. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[125] Gérard Huet. The calculus of constructions. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, page 372. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[126] H. Hussmann. The passau rap system: Rapid prototyping for algebraic specifications. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 475–476. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[127] O.H. Ibarra and T. Jiang. On the computing power of one-way cellular arrays. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 550–562. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[128] O.H. Ibarra and B. Ravikumar. Relating the degree of ambiguity of finite automata to the succinctnes of their representation. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 26–43. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[129] K. Indermark and H. Klaeren. Efficient implementation of structural recursion. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 204–213. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[130] M.A. Iordanskii. Minimal numberings of the vertices of trees-approximate approach. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June*

1987), volume 278 of *LNCS*, pages 214–217. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[131] M. Jackel. Ada concurrency specified by graph grammars. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 41–57. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[132] R. Janicki and M. Koutny. On equivalent execution semantics of concurrent systems. In Grzegorz Rozenberg, editor, *Advances in Petri nets 1987*, volume 266 of *LNCS*, pages 89–103. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[133] M. Jantzen. Complexity of place/transition nets. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Central models and their properties (Part I) (Bad Honnef, September 1986)*, volume 254 of *LNCS*, pages 413–434. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[134] M. Jantzen. Language theory of petri nets. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Central models and their properties (Part I) (Bad Honnef, September 1986)*, volume 254 of *LNCS*, pages 397–412. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[135] M. Jantzen, M. Kudlek, K.-J. Lange, and H. Persen. Dyck_1-reductions of context-free languages. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 218–227. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[136] K. Jensen. Coloured petri nets. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Central models and their properties (Part I) (Bad Honnef, September 1986)*, volume 254 of *LNCS*, pages 248–299. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[137] K. Jensen. Computer tools for construction, modification and analysis of petri nets. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Applications and relationships to other models of concurrency (Part II) (Bad Honnef, September 1986)*, volume 255 of *LNCS*, pages 4–19. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[138] J.H. Johnson. Single-valued finite transduction. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 202–211. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[139] B. Josko. Modelchecking of *ctl* formulae under liveness assumptions. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 280–289. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[140] S.P. Jukna. Information flow and width of branching programs (extended abstract). In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 228–230. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[141] G. Kahn. Natural semantics. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 22–39. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[142] S. Kaplan and A. Pnueli. Specification and implementation of concurrently accessed data structures: An abstract data type approach. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume

247 of *LNCS*, pages 220–244. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[143] L.M. Karahanjan and A.A. Sapozhenko. On some operations of partial monotone boolean function simplifying. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 231–233. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[144] J. Karhumäki. On recent trends in formal language theory. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 136–162. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[145] N.A. Karpova. On complexity of computations with limited memory. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 234–235. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[146] M. Kaul. Specification of error distances for graphs by precedence graph grammars and fast recognition of similarity. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 29–40. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[147] V. Keränen. On the k-freeness of morphisms on free monoids. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 180–188. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[148] R. Klein and D. Wood. The node visit cost of brother trees. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 106–117. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[149] W. Kluge. Reduction, data flow and control flow models of computation. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Applications and relationships to other models of concurrency (Part II) (Bad Honnef, September 1986)*, volume 255 of *LNCS*, pages 466–498. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[150] K.V. Kolyada. On the problem of completeness for the regular mappings. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 236–238. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[151] A.D. Korshunov. The number and the structure of typical sperner and k-non-separable families of subsets of a finite set. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 239–243. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[152] N. Korte and R.H. Möhring. A simple linear-time algorithm to recognize interval graphs. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 1–16. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[153] N.K. Kossovsky. A criterion of polynomial lower bounds of combinational complexity. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals*

of Computation Theory, FCT'87 (Kazan, USSR, June 1987), volume 278 of *LNCS*, pages 244–245. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[154] V.E. Kotov and L.A. Cherkasova. On generalized process logic. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 246–250. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[155] W. Kowalczyk and P. Urzycyn. Verification of programs with higher-order arrays. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 251–258. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[156] V.A. Kozlovskiy. On the complexity of analyzing experiments for checking local faults of an automaton. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 259–262. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[157] H.-J. Kreowski. Partial algebras flow from algebraic specifications. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 521–530. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[158] K. Kriegel and S. Waack. Exponential lower bounds for real-time branching programs. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 263–267. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[159] F. Krückeberg and M. Jaxy. Mathematical methods for calculating invariants in petri nets. In Grzegorz Rozenberg, editor, *Advances in Petri Nets 1987*, volume 266 of *LNCS*, pages 104–131. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[160] V.B. Kudrjavtzev. On the conditions of supplementicity in functional systems. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 268–271. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[161] W. Kuich. The kleene and the parikh theorem in complete semirings. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 212–225. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[162] A. Kumar and V.M. Malhotra. A lock-ahead interpreter for sequential prolog and its implementation. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 470–484. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[163] M. Kunde. Optimal sorting on multi-dimensionally mesh-connected computers. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 408–419. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[164] N.N. Kuzjurin. On one approximate algorithm for solving systems of linear inequalities with boolean variables. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, page 272. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[165] S.E. Kuznetsov, N.N. Nurmeev, and F.I. Salimov. The problem of minimal implicating vector. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 273–278. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[166] G.M. Landau, B. Schieber, and U. Vishkin. Parallel construction of a suffix tree. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 314–325. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[167] K.-J. Lange, B. Jenner, and B. Kirsig. The logarithmic alternation hierarchy collapses: $a\sigma_2^{\updownarrow} = a\pi_2^{\updownarrow}$. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 531–541. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[168] K.G. Larsen and R. Milner. Verifying a protocol using relativized bisimulation. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 126–135. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[169] R.Kh. Latypov. Built-in self-testing of logic circuits using imperfect duplication. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 279–283. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[170] K. Lautenbach. Linear algebraic techniques for place/transition nets. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Central models and their properties (Part I) (Bad Honnef, September 1986)*, volume 254 of *LNCS*, pages

142–167. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[171] A. Laville. Lazy pattern matching in the ml language. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 400–419. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[172] M. Lemoine, R. Jacquart, and G. Zanon. Sprac: A software engineering environment. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 477–478. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[173] T. Lengauer and K.W. Wagner. The correlation between the complexities of the non-hierarchical and hierarchical versions of graph problems. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 100–113. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[174] P. Lescanne. Reve a rewrite rule laboratory. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 482–483. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[175] A.A. Letichevsky. Algebrae with approximation and recursive data structures. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 284–287. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[176] C. Levcopoulos. Improved bounds for covering general polygons with rectangles. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 95–102. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[177] C. Levcopoulos, A. Lingas, and J.-R. Sack. Nearly optimal heuristics for binary search trees with geometric generalizations. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 376–385. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[178] M. Li and Y. Yesha. The probabilistic and deterministic parallel complexity of symmetric functions. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 326–335. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[179] A. Lingas and A. Proskurowski. Fast parallel algorithms for the subgraph homeomorphism and the subgraph isomorphism problem for classes of planar graphs. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 79–94. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[180] K. Lodaya and P.S. Thiagarajan. A modal logic for a subclass of event structures. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 290–303. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[181] I.A. Lomazova. Procedural implementation of algebraic specifications of abstract data types. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on*

Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987), volume 278 of *LNCS*, pages 288–292. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[182] S.A. Lozkin and M.A. Koshkin. On the complexity of realizing some systems of the functions of the algebra of logic by contact and generalized contact circuits. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 293–296. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[183] S.A. Lozkin and A.A. Semenov. On construction of a complete system of compression functions and on complexity of monotone realization of threshold boolean functions. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 297–300. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[184] A. Marchetti-Spaccamela and C. Vercellis. Efficient on-line algorithms for the knapsack problem. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 445–456. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[185] Yu. Matijasevich. Diophantine complexity. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, page 301. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[186] A. Mazurkiewicz. Trace theory. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Applications and relationships to other models of concurrency (Part II) (Bad Honnef, September 1986)*, volume 255 of *LNCS*, pages 279–324. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[187] K. Mehlhorn and M. Kaufmann. On local routing of two-terminal nets. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 40–52. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[188] K. Mehlhorn, S. Näher, and H. Alt. A lower bound for the complexity of the union-split-find problem. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 479–488. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[189] E. Meijer. Petri net models for the λ-calculus. In Grzegorz Rozenberg, editor, *Advances in Petri Nets 1987*, volume 266 of *LNCS*, pages 162–180. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[190] C. Meinel. The power of nondeterminism in polynomial-size bounded-width branching programs. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 302–309. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[191] G. Memmi and J. Vautherin. Analysing nets by the invariant method. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Central models and their properties (Part I) (Bad Honnef, September 1986)*, volume 254 of *LNCS*, pages 300–336. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[192] M.V. Men'shikov and S.A. Zuev. Estimation algorithms of infinite graphs percolation threshold. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 310–313. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[193] A. Merceron. Fair processes. In Grzegorz Rozenberg, editor, *Advances in Petri Nets 1987*, volume 266 of *LNCS*, pages 181–195. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[194] Y. Métivier. An algorithm for computing asynchronous automata in the case of acyclic non-commutation graphs. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 226–236. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[195] V.Yu. Mikhailov. A solving of problem on technological models. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 314–317. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[196] G.E. Mints. Some formal systems of the logic programming. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 318–322. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[197] S. Miyano. The lexicographically first maximal subgraph problems: p-completeness and nc algorithms. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 425–434. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[198] C.K. Mohan and M.K. Srivas. Reasoning in systems of equations and inequations. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 305–325. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[199] P. Molitor. On the contact-minimization problem. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 420–431. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[200] M.Iu. Moshkov. On the programs with finite development. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 323–327. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[201] G.L. Movsisian and Zh.G. Margarian. d-representing code problem solution. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 328–331. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[202] R.G. Mubarakzianov. Metric properties of random sequence. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 332–333. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[203] V.I. Mukhin. Adaptive strategies for partially observable controlled random series. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 334–338. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[204] N.Th. Müller. Uniform computational complexity of taylor series. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages

435–444. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[205] Lee Naish. Specification = program + types. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 326–339. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[206] M.A. Nait Abdallah. Logic programming with ions. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 11–20. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[207] Il.R. Nasyrov. The degrees of nondeterminism in pushdown automata. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 339–342. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[208] D. Neilson. Hierarchical refinement of a z specification. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 376–399. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[209] M. Nielsen. Ccs - and its relationship to net theory. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Applications and relationships to other models of concurrency (Part II) (Bad Honnef, September 1986)*, volume 255 of *LNCS*, pages 393–415. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[210] K.V. Nori, S. Kumar, and M. Pavan Kumar. Retrospection on the pqcc compiler structure. In Kesav V. Nori, editor, *Proceedings of the*

7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987), volume 287 of *LNCS*, pages 500–527. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[211] V.N. Noskov. Statistically effective algorithms for automata control. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 343–346. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[212] H. Oberquelle. Human-machine interaction and role/function/action-nets. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Applications and relationships to other models of concurrency (Part II) (Bad Honnef, September 1986)*, volume 255 of *LNCS*, pages 171–190. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[213] O.A. Ogunyode. Parallel algorithms for approximate edge coloring of simple graphs. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 207–225. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[214] E.-R. Olderog. Operational petri net semantics for ccsp. In Grzegorz Rozenberg, editor, *Advances in Petri Nets 1987*, volume 266 of *LNCS*, pages 196–223. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[215] E.R. Olderog. Tcsp: Theory of communicating sequential processes. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Applications and relationships to other models of concurrency (Part II) (Bad Honnef, September 1986)*, volume 255 of *LNCS*, pages 441–465. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[216] A. Pagnoni. Stochastic nets and performance evaluation. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced*

course in Petri nets: Central models and their properties (Part I) (Bad Honnef, September 1986), volume 254 of *LNCS*, pages 460–478. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[217] M. Parigot. Automata, games, and positive monadic theories of trees. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 44–57. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[218] Rohit Parikh. Some recent applications of knowledge. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 528–539. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[219] J. Parrow. Submodule construction as equation solving in ccs. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 103–123. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[220] A. Paz and C.P. Schnorr. Approximating integer lattices by lattices with cyclic factor groups. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 386–393. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[221] E. Pelz. Closure properties of deterministic petri nets. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 371–382. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[222] E. Pelz. Infinitary languages of petri nets and logical sentences. In Grzegorz Rozenberg, editor, *Advances in Petri Nets 1987*, volume 266 of *LNCS*, pages 224–237. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[223] V.I. Pereyaslavsky. Linear test procedures of recognition. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 347–348. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[224] I.G. Perfilyeva. Evaluation of cardinalities of some families of ξ-classes in $p\aleph_0$. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 349–353. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[225] C.A. Petri. Concurrence theory. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Central models and their properties (Part I) (Bad Honnef, September 1986)*, volume 254 of *LNCS*, pages 4–24. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[226] C.A. Petri. "forgotten topics" of net theory. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Applications and relationships to other models of concurrency (Part II) (Bad Honnef, September 1986)*, volume 255 of *LNCS*, pages 500–514. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[227] C.A. Petri and E. Smith. Concurrency and continuity. In Grzegorz Rozenberg, editor, *Advances in Petri Nets 1987*, volume 266 of *LNCS*, pages 273–292. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[228] A. Pettorossi. Program development using lambda abstraction. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87*

(Pune, India, December 17-19, 1987), volume 287 of *LNCS*, pages 420–434. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[229] J.E. Pin. On the languages accepted by finite reversible automata. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 237–249. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[230] L. Pitt and C.H. Smith. Probability and plurality for aggregations of learning machines. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 1–10. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[231] A.S. Podkolzin. On the temporal complexity of boolean mappings realizations in two-dimensional homogeneous automata. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 354–358. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[232] R.I. Podlovčenko. On approximate solution of the problem of equivalent transformations of programs. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 359–363. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[233] S. Pramanik and D. Vineyard. Optimizing join queries in distributed databases. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 282–304. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[234] L. Priese, R. Rehrmann, and U. Willecke-Klemme. Some results on fairnes: the regular case. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 383–395. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[235] S. Rajasekaran and J.H. Reif. Randomized parallel computation. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 364–376. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[236] S. Rajasekaran and T. Tsantilas. On optimal randomized routing algorithm for the mesh and a class of efficient mesh-like routing networks. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 226–241. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[237] R. Ramanujam. Semantics of distributed horn clause programs. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 361–371. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[238] R. Ramesh, R.M. Verma, T. Krishnaprasad, and I.V. Ramakrishnan. Term matching on parallel computers. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 336–346. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[239] B. Ravikumar, K. Ganesan, and K.B. Lakshmanan. On selecting the largest element in spite of erroneous information. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the*

4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987), volume 247 of *LNCS*, pages 88–99. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[240] N.P. Redkin. On checking correctness of some classes of control systems. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 377–382. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[241] W. Reisig. Petri nets in software engineering. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Applications and relationships to other models of concurrency (Part II) (Bad Honnef, September 1986)*, volume 255 of *LNCS*, pages 63–96. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[242] W. Reisig. Place/transition systems. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Central models and their properties (Part I) (Bad Honnef, September 1986)*, volume 254 of *LNCS*, pages 117–141. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[243] W. Reisig. A strong part of concurrency. In Grzegorz Rozenberg, editor, *Advances in Petri Nets 1987*, volume 266 of *LNCS*, pages 238–272. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[244] G. Roucairol. Fifo-nets. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Central models and their properties (Part I) (Bad Honnef, September 1986)*, volume 254 of *LNCS*, pages 436–459. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[245] G. Rozenberg. Behaviour of elementary net systems. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Central models and their properties (Part I) (Bad*

Honnef, September 1986), volume 254 of *LNCS*, pages 60–94. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[246] D. Ruland. Edm - a data model for electronic cad/cam-applications. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 290–305. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[247] I.K. Rystsov. The parallel complexity of some arithmetic and algebraic operations. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 383–385. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[248] A.A. Safarian. On difficulties of solving a problem of decomposition of the system of boolean equations. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 386–388. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[249] M. Santha. Relativized arthur-merlin versus merlin-arthur games. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 435–442. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[250] N. Santoro, J.B. Sidney, and S.J. Sidney. On the expected complexity of distributed selection. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 456–467. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[251] A. Sanyal, S. Biswas, and V.M. Malhotra. Extension of weakest precondition formalism to a low level language. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 485–499. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[252] A.A. Sapozhenko. The number of fuzzy monotone functions. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 389–390. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[253] P.S. Sastry, N. Jayakumar, and C.E. Veni Madhavan. Efficient algorithms for domination and hamilton circuit problems on permutation graphs. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 65–78. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[254] V.Yu. Sazonov. Bounded set theory and polynomial computability. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 391–395. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[255] U. Schmidt. Avoidable patterns on 2 letters. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 189–197. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[256] U. Schöning. Graph isomorphism is in the low hierarchy. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the*

4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987), volume 247 of *LNCS*, pages 114–124. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[257] A. Schoone, H. Bodlaender, and J. van Leeuwen. Improved diameter bounds for altered graphs. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 227–236. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[258] J.T. Schwartz and M. Sharir. On the bivariate function minimization problem and its applications to motion planning. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 357–363. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[259] V.L. Selivanov. Index sets of factor-objects of the post numbering. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 396–400. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[260] N.A. Shkalikova. On realization of boolean functions by schemes consisting of checked elements. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 401–405. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[261] L.A. Sholomov. The complexity of the sequential choice mechanism. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 406–408. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[262] R.K. Shyamasundar, K.T. Narayana, and T. Pitassi. Semantics for nondeterministic asynchronous broadcast networks. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 72–83. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[263] V.D. Soloviev. Nondeterministic finite algorithmic procedures as the models of abstract computability. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 409–411. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[264] V.R. Solovieva. The reducibility of random sequences by automata. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 412–413. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[265] P. Spirakis. The diameter of connected components of random graphs. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 264–276. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[266] S.A. Stepanov and I.E. Shparlinskiy. On structure complexity of normal basis of finite field. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 414–416. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[267] V.A. Stetsenko. On comparison of boolean bases. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages

417–419. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[268] I.A. Stewart. An algorithm for colouring perfect planar graphs. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 58–64. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[269] E. Stöhr. A tradeoff between pagenumber and width of book embeddings of graphs. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 420–423. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[270] A.S. Strogalov. On metric properties of automata and ϵ-approximation of automaton mappings. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 424–427. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[271] K.G. Subramanian, Do Long Van, and R. Siromoney. On ambiguity of dtol systems. In Kesav V. Nori, editor, *Proceedings of the 7th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'87 (Pune, India, December 17-19, 1987)*, volume 287 of *LNCS*, pages 3–14. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[272] E.A. Sumenkov. Algorithmization of obtaining the converse comparison theorems based on solving a logical equation. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 428–431. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[273] M.M. Sysło. On some generalizations of outerplanar graphs: Results and open problems. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 146–164. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[274] A.A. Sytnik. Synthesis of universal finite automats. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 432–434. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[275] V.A. Taimanov. On cartesian powers of p_2. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, page 435. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[276] D. Taimina. Complexity gaps of turing machines on infinite words. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 436–439. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[277] R. Tamassia and I.G. Tollis. Centipede graphs and visibility on a cylinder. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 252–263. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[278] D. Taubner and W. Vogler. The step failure semantics. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of

LNCS, pages 348–359. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[279] G. Tel. Distributed infimum approximation. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 440–447. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[280] G. Tel, R.B. Tan, and J. van Leeuwen. The derivation of on-the-fly garbage collection algorithms from distributed termination detection protocols. In F.J. Brandenburg, G. Vidal-Naquet, and M. Wirsing, editors, *Proceedings of the 4th Annual Symposium on Theoretical Aspects of Computer Science, STACS'87 (Passau, Germany, February 19-21, 1987)*, volume 247 of *LNCS*, pages 445–455. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[281] B. Thalheim. On the number of keys in relational databases. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 448–455. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[282] P.S. Thiagarajan. Elementary net systems. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Central models and their properties (Part I) (Bad Honnef, September 1986)*, volume 254 of *LNCS*, pages 26–59. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[283] A.K. Tsakalidis. The nearest common ancestor in a dynamic tree. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, pages 489–498. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[284] A.B. Ugol'nikov. Complexity and depths of formulas realizing functions from closed classes. In L. Budach, R.G. Bukharajev, and O.B. Lupanov,

editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 456–461. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[285] D. Uhlig. Reliable networks from unreliable gates with almost minimal complexity. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 462–469. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[286] R. Valette. Nets in production systems. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Applications and relationships to other models of concurrency (Part II) (Bad Honnef, September 1986)*, volume 255 of *LNCS*, pages 191–217. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[287] L.G. Valiant. Recent developments in the theory of learning. In Th. Ottmann, editor, *Proceedings of the 14th International Colloquium on Automata, Languages and Programming, ICALP'87 (Karlsruhe, Germany, July 13-17, 1987)*, volume 267 of *LNCS*, page 563. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[288] F.I. Validov. On the standard and pseudostandard star height of regular sets. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 470–471. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[289] R. Valk. Infinite behaviour and fairness. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Central models and their properties (Part I) (Bad Honnef, September 1986)*, volume 254 of *LNCS*, pages 377–396. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[290] R. Valk. Nets in computer organization. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Applications and relationships to other models of concurrency (Part II) (Bad Honnef, September 1986)*, volume 255 of *LNCS*, pages 218–233. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[291] S.N. Vassiljev. To automation of theorem synthesis. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 472–476. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[292] J. Vautherin. Parallel systems specifications with coloured petri nets and algebraic specifications. In Grzegorz Rozenberg, editor, *Advances in Petri Nets 1987*, volume 266 of *LNCS*, pages 293–308. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[293] W. Vogler. Behaviour preserving refinements of petri nets. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 82–93. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[294] E.G. Vorobeva. On efficiency of prefix word-encoding of binary messages. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 477–478. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[295] A.A. Voronkov. Deductive program synthesis and markov's principle. In L. Budach, R.G. Bukharajev, and O.B. Lupanov, editors, *Proceedings of the International Conference on Fundamentals of Computation Theory, FCT'87 (Kazan, USSR, June 1987)*, volume 278 of *LNCS*, pages 479–482. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[296] K. Voss. Nets in data bases. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Applications and relationships to other models of concurrency (Part II) (Bad Honnef, September 1986)*, volume 255 of *LNCS*, pages 97–135. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[297] K. Voss. Nets in office automation. In W. Brauer, W. Reisig, and G. Rozenberg, editors, *Proceedings of an advanced course in Petri nets: Applications and relationships to other models of concurrency (Part II) (Bad Honnef, September 1986)*, volume 255 of *LNCS*, pages 234–257. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[298] H.F. Wedde. A graph-theoretic approach for designing fair distributed resource scheduling algorithms. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 204–226. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[299] P. Widmayer. On approximation algorithms for steiner's problem in graphs. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 17–28. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.

[300] M. Wiegers. Recognizing outerplanar graphs in linear time. In G. Tinhofer and G. Schmidt, editors, *Proceedings of the 12th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'86 (Bernried, Germany, June 17-19, 1986)*, volume 246 of *LNCS*, pages 165–176. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1987.