

## References

- [1] Pankaj K. Agarwal, Boris Aronov, Joseph O'Rourke, and Catherine A. Schevon. Star unfolding of a polytope with applications. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 251–263. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [2] M. Alberts. Interrogative complexity of  $\omega$ -languages' recognition. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 152–157. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [3] E. Allender, R. Beigel, U. Hertrampf, and S. Homer. A note on the almost-everywhere hierarchy for nondeterministic time. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 1–11. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [4] E. Allender and U. Hertrampf. On the power of uniform families of constant depth threshold circuits. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 158–164. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [5] Eric Allender. Oracles versus proof techniques that do not relativize. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 39–52. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.

- [6] J.-P. Allouche and J. Shallit. The ring of  $k$ -regular sequences. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 12–23. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [7] Hussein M. Alnuweiri and V.K. Prasanna Kumar. Parallel convexity algorithms for digitized images on a linear array of processors. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 397–406. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [8] Helmut Alt, Johannes Blömer, Michael Godau, and Hubert Wagener. Approximation of convex polygons. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 703–716. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [9] Ingo Althöfer, Gautam Das, David Dobkin, and Deborah Joseph. Generating sparse spanners for weighted graphs. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 26–37. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [10] Rajeev Alur and David Dill. Automata for modeling real-time systems. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 322–335. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [11] K. Ambos-Spies, S. Homer, and R.I. Soare. Minimal pairs and complete problems. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 34–45. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

of *LNCS*, pages 24–36. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [12] Efthymios G. Anagnostou, Leonidas J. Guibas, and Vassilios G. Polimenis. Topological sweeping in three dimensions. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 310–317. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [13] Arne Andersson and Tony W. Lai. Fast updating of well-balanced trees. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 111–121. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [14] M. Anselmo. Two-way automata with multiplicities. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 88–102. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [15] Stefan Arnborg and Andrzej Proskurowski. Canonical representations of partial 2- and 3-trees. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 310–319. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [16] Anish Arora and Mohamed Gouda. Distributed reset. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 316–331. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.

- [17] Tetsuo Asano and Takeshi Tokuyama. Algorithms for projecting points to give the most uniform distribution with applications to hashing. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 300–309. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [18] Mikhail J. Atallah. A faster parallel algorithm for a matrix searching problem. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 192–200. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [19] David Avis. On the complexity of isometric embedding in the hypercube. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 348–357. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [20] Ricardo Baeza-Yates, Gaston H. Gonnet, and Nivio Ziviani. Expected behaviour analysis of avl trees. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 143–159. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [21] Ricardo Baeza-Yates and Mireille Régnier. Fast algorithms for two dimensional and multiple pattern matching. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 332–347. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [22] S.K. Baruah, R.R. Howell, and L.E. Rosier. On preemptive scheduling of periodic, real-time tasks on one processor. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica,*

*Czechoslovakia, August 27-31, 1990*), volume 452 of *LNCS*, pages 173–179. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [23] D. Beaver and J. Feigenbaum. Hiding instances in multioracle queries. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 37–48. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [24] R. Beigel, J. Gill, and U. Hertrampf. Counting classes: Thresholds, parity, mods, and fewness. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 49–57. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [25] W. Samuel Bent. Ranking trees generated by rotations. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 132–142. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [26] Akshar Bharati, Rajeev Sangal, and Vineet Chaitanya. Natural language processing, complexity theory and logic. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 410–420. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [27] Sara Bitan and Shmuel Zaks. Optimal linear broadcast. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 368–377. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.

- [28] Norbert Blum. A new approach to maximum matching in general graphs. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 586–597. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [29] Hans L. Bodlaender and Rolf H. Möhring. The pathwidth and treewidth of cographs. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 301–309. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [30] Ronald V. Book, Jack H. Lutz, and Shouwen Tang. Additional queries to random and pseudorandom oracles. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 283–293. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [31] Ravi Boppana and Magnús M. Halldórsson. Approximating maximum independent sets by excluding subgraphs. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 13–25. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [32] E. Börger. A logical operational semantics of full prolog. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 1–14. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [33] G. Buntrock, L.A. Hemachandra, and D. Siefkes. Using inductive counting to simulate nondeterministic computation. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica,*

*Czechoslovakia, August 27-31, 1990*), volume 452 of *LNCS*, pages 187–194. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [34] J. Cai, A. Condon, and R.J. Lipton. Playing games of incomplete information. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 58–69. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [35] Svante Carlsson, Christos Levcopoulos, and Ola Petersson. Sublinear merging and natural merge sort. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 251–260. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [36] John Case, Dayanand S. Rajan, and Anil M. Shende. Optimally representing euclidean space discretely for analogically simulating physical phenomena. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 190–203. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [37] I. Černá. Some properties of zerotesting bounded one-way multi-counter machines. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 195–201. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [38] Kwong-fai Chan and Tak-wah Lam. Finding least-weight subsequences with fewer processors. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 318–327. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.

- [39] B. Chandrasekaran and N. Hari Narayanan. Towards a theory of commonsense visual reasoning. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 388–409. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [40] Maw Shang Chang, C.Y. Tang, and R.C.T. Lee. 20-relative neighborhood graphs are hamiltonian. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 53–65. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [41] Bernard Chazelle. Searching in higher dimension. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 155–155. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [42] Christian Choffrut. Iterated substitutions and locally catenative systems. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 490–500. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [43] M. Chrobak and L.L. Larmore. On fast algorithms for two servers. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 202–208. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [44] M.P. Chytil and B. Monien. Caterpillars and context-free languages. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90*

(Rouen, France, February 22-24, 1990), volume 415 of *LNCS*, pages 70–81. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [45] M. Clerboud and D. Gonzales. Decomposition of semi commutations. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 209–216. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [46] M. Clerboud and Y. Roos. Semi-commutations and algebraic languages. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 82–94. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [47] Mireille Clerboud, Michel Latteux, and Yves Roos. Decomposition of partial commutations. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 501–511. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [48] Richard Cole, Michael T. Goodrich, and Colm O'Dúnlait. Merging free trees in parallel for efficient voronoi diagram construction. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 432–445. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [49] Hubert Comon. Equational formulas in order-sorted algebras. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 674–688. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [50] A. Corradini and U. Montanari. Towards a process semantics in the logic programming style. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 95–108. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [51] Michel Cosnard and Jean-Laurent Philippe. Distributed algorithms for deciphering. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 191–200. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [52] Costas Courcoubetis and Mihalis Yannakakis. Markov decision processes and regular events. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 336–349. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [53] M. Crochemore and W. Rytter. Parallel computations on strings and arrays. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 109–125. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [54] M. Crochemore and W. Rytter. Parallel constructions of minimal suffix and factor automata. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 217–223. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [55] K. Culik II and S. Dube. Affine automata: A technique to generate complex images. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science*,

*MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 224–231. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [56] Karel Culik II and Simant Dube. Automata-theoretic techniques for image generation and compression. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 76–90. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [57] C. Damm. The complexity of symmetric functions in parity normal forms. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 232–238. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [58] F. d’Amore and P.G. Franciosa. Separating sets of hyperrectangles. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 165–172. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [59] P. Darondeau and P. Degano. Event structures, causal trees, and refinements. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 239–245. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [60] G. Das and D. Joseph. Minimum vertex hulls for polyhedral domains. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 126–137. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [61] Amitava Datta and G.D.S. Ramkumar. On some largest empty orthoconvex polygons in a point set. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 270–285. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [62] Mark de Berg. Translating polygons with applications to hidden surface removal. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 60–70. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [63] Mark de Berg, Marc J. van Kreveld, Bengt J. Nilsson, and Mark H. Overmars. Finding shortest paths in the presence of orthogonal obstacles using a combined  $l_1$  and link metric. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 213–224. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [64] F.S. de Boer. A proof system for the parallel object-oriented language pool. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 572–585. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [65] A. de Bruin and E.P. de Vink. Retractions in comparing prolog semantics. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 180–186. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [66] Aldo de Luca and Stefano Varricchio. On non-counting regular classes. In M.S. Paterson, editor, *Proceedings of the 17th International Collo-*

*quium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 74–87. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [67] Rocco De Nicola and Gian Luigi Ferrari. Observational logics and concurrency models. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 301–315. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [68] Giuseppe Di Battista and Roberto Tamassia. On-line graph algorithms with spqr-trees. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 598–611. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [69] V. Diekert. Combinatorial rewriting on traces. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 138–151. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [70] Paul F. Dietz and Ju Zhang. Lower bounds for monotonic list labeling. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 173–180. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [71] Martin Dietzfelbinger and Friedhelm Meyer auf der Heide. A new universal class of hash functions and dynamic hashing in real time. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 6–

19. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [72] Borivoje Djokić, Masahiro Miyakawa, Satoshi Sekiguchi, Ichiro Semba, and Ivan Stojmenović. Parallel algorithms for generating subsets and set partitions. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 76–85. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [73] David Dobkin, John Hershberger, David Kirkpatrick, and Subhash Suri. Implicitly searching convolutions and computing depth of collision. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 165–180. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [74] David P. Dobkin and David G. Kirkpatrick. Determining the separation of preprocessed polyhedra. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 400–413. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [75] Manfred Droste. Concurrency, automata and domains. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 195–208. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [76] P. Dublich and S.N. Maheshwari. Query languages which express all ptime queries for trees and unicyclic graphs. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 246–253. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [77] Herbert Edelsbrunner and Micha Sharir. A hyperplane incidence problem with applications to counting distances. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 419–428. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [78] David Eppstein. Finding the  $k$  smallest spanning trees. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 38–47. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [79] E. Fachini, A. Maggiolo Schettini, and D. Sangiorgi. Comparisons among classes of y-tree systolic automata. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 254–260. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [80] Uriel Feige, David Peleg, Prabhakar Raghavan, and Eli Upfal. Randomized broadcast in networks. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 128–137. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [81] David Fernández-Baca. Space-sweep algorithms for parametric optimization. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 264–275. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [82] David Fernández-Baca and Mark A. Williams. On matroids and hierarchical graphs. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90*

(Bergen, Norway, July 11-14, 1990), volume 447 of *LNCS*, pages 320–331. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [83] Wenceslas Fernandez de la Vega, Sampath Kannan, and Miklos Santha. Two probabilistic results on merging. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 118–127. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [84] Philippe Flajolet, Paolo Sipala, and Jean-Marc Steyaert. Analytic variations on the common subexpression problem. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 220–234. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [85] Joseph Friedman, John Hershberger, and Jack Snoeyink. Input-sensitive compliant motion in the plane. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 225–237. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [86] Jyh-Jong Fu and R.C.T. Lee. Voronoi diagrams of moving points in the plane. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 238–254. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [87] Zvi Galil. Recent progress in string algorithms. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 1–1. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.

- [88] W.I. Gasarch, L.A. Hemachandra, and A. Hoene. On checking versus evaluation of multiple queries. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 261–268. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [89] R. Gavaldà, L. Torenvliet, O. Watanabe, and J.L. Balcázar. Generalized kolmogorov complexity in relativized separations. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 269–276. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [90] A. Gavilanes-Franco. A first-order logic for partial recursive functions. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 277–284. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [91] Hillel Gazit and Gary L. Miller. Planar separators and the euclidean norm. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 338–347. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [92] V. Geffert. Speed-up theorem without tape compression. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 285–291. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [93] Viliam Geffert. Nondeterministic computations in sublogarithmic space and space constructibility. In M.S. Paterson, editor, *Proceedings*

*of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990), volume 443 of LNCS, pages 111–124. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.*

- [94] D. Geidmanis. On possibilities of one-way synchronized and alternating automata. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of LNCS, pages 292–299. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [95] A. Goerdt. Unrestricted resolution versus n-resolution. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of LNCS, pages 300–305. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [96] R. Gold and W. Vogler. Quality criteria for partial order semantics of place/transition-nets. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of LNCS, pages 306–312. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [97] Oded Goldreich and Hugo Krawczyk. On the composition of zero-knowledge proof systems. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of LNCS, pages 268–282. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [98] W. Golubski and W.-M. Lippe. Tree-stack automata. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of LNCS, pages 313–321. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [99] Michael T. Goodrich, Mikhail J. Atallah, and Mark H. Overmars. An input-size/output-size trade-off in the time-complexity of rectilinear hidden surface removal. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 689–702. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [100] Per Grape. Complete problems with  $l$ -samplable distributions. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 360–367. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [101] Peter Grønning, Thomas Qvist Nielsen, and Hans Henrik Løvengreen. Refinement and composition of transition-based rely-guarantee specifications with auxiliary variables. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 332–348. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [102] Jan Friso Groote and Frits Vaandrager. An efficient algorithm for branching bisimulation an stuttering equivalence. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 626–638. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [103] Leonidas Guibas, David Salesin, and Jorge Stolfi. Constructing strongly convex approximate hulls with inaccurate primitives. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 261–270. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.

- [104] Leonidas J. Guibas, Donald E. Knuth, and Micha Sharir. Randomized incremental construction of delaunay and voronoi diagrams. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 414–431. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [105] Yijie Han. Parallel algorithms for linked list and beyond. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 86–100. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [106] Yijie Han and Yoshihide Igarashi. Derandomization by exploiting redundancy and mutual independence. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 328–337. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [107] M.R. Hansen and Z. Chao-Chen. Specification and verification of higher order processes. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 322–328. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [108] Juris Hartmanis, Richard Chang, Desh Ranjan, and Pankaj Rohatgi. Structural complexity theory: Recent surprises. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 1–12. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [109] Refael Hassin. Simultaneous solution of families of problems. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan,*

*August 16-18, 1990*), volume 450 of *LNCS*, pages 288–299. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.

- [110] Pavol Hell, Jørgen Bang-Jensen, and Jing Huang. Local tournaments and proper circular arc graphs. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 101–108. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [111] Lane A. Hemachandra. Algorithms from complexity theory: Polynomial-time operations for complex sets. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 221–231. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [112] M. Hennessy and A. Ingólfssdóttir. A theory of communicating processes with value-passing. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 209–219. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [113] John Hershberger. Upper envelope onion peeling. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 368–379. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [114] John Hershberger and Subhash Suri. Applications of a semi-dynamic convex hull algorithm. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 380–392. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [115] F. Hinz. The membership problem for context-free chain code picture languages. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 329–336. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [116] Frank Hoffmann. On the rectilinear art gallery problem. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 717–728. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [117] J. Hromkovič, C.-D. Jeschke, and B. Monien. Optimum algorithms for dissemination of information in some interconnection networks. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 337–346. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [118] Wen-Jing Hsu and Xiaola Lin. Parallel algorithms for labeling image components. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SI-GAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 407–418. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [119] Tien Huynh, Leo Joskowicz, Catherine Lassez, and Jean-Louis Lassez. Reasoning about linear constraints using parametric queries. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 1–20. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [120] Hiroshi Imai and Kazuo Iwano. Efficient sequential and parallel algorithms for planar minimum cost flow. In T. Asano, T. Ibaraki, H. Imai,

- and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 21–30. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [121] Toshiya Itoh. Characterization for a family of infinitely many irreducible equally spaced polynomials. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 181–190. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
  - [122] Kazuo Iwano and Susan Yeh. An efficient algorithm for optimal loop parallelization. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 201–210. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
  - [123] Radha Jagadeesan and Prakash Panangaden. A domain-theoretic model for a higher-order process calculus. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 181–194. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
  - [124] Sanjay Jain and Arun Sharma. Language learning by a “team”. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 153–166. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
  - [125] Mark Jerrum and Alistair Sinclair. Polynomial-time approximation algorithms for the ising model. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 462–475. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [126] David S. Johnson. Data structures for traveling salesmen. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 287–287. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [127] David S. Johnson. Local optimization and the traveling salesman problem. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 446–461. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [128] Neil D. Jones. Partial evaluation, self-application and types. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 639–659. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [129] B. Jonsson. A hierarchy of compositional models of i/o-automata. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 347–354. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [130] D. Joseph and M. Sitharam. Kolmogorov complexity, restricted non-determinism and generalized spectra. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 152–164. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [131] J.-P. Jouannaud. Syntactic theories. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 15–25. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [132] Tony T-Y. Juang and S. Venkatesan. Efficient algorithms for crash recovery in distributed systems. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 349–361. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [133] J. Kaṇeps and R. Freivalds. Minimal nontrivial space complexity of probabilistic one-way turing machines. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 355–361. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [134] Goos Kant and Jan van Leeuwen. The file distribution problem for processor networks. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 48–59. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [135] Deepak Kapur, G. Sivakumar, and Hantao Zhang. A new method for proving termination of ac-rewrite systems. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 133–148. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [136] M. Karpinski and F. Meyer auf der Heide. On the complexity of genuinely polynomial computation. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 362–368. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [137] David G. Kirkpatrick and Feng Gao. Finding extrema with unary predicates. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, edi-

- tors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 156–164. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [138] Maria Klawe and Tom Leighton. A tight lower bound on the size of planar permutation networks. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 281–287. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
  - [139] R. Klein, K. Mehlhorn, and S. Meiser. On the construction of abstract voronoi diagrams, ii. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 138–154. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
  - [140] Jan Willem Klop. Term rewriting systems. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 350–369. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
  - [141] N.M. Korneenko and H. Martini. Approximating finite weighted point sets by hyperplanes. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 276–286. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
  - [142] S. Rao Kosaraju. On the parallel evaluation of classes of circuits. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 232–237. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.

- [143] E. Kounalis. Pumping lemmas for tree languages generated by rewrite systems. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 369–377. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [144] M. Kowaluk and K.W. Wagner. Vector language: Simple description of hard instances. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 378–384. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [145] D. Kozen. On kleene algebras and closed semirings. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 26–47. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [146] J. Krajíček, P. Pudlák, and J. Sgall. Interactive computations of optimal solutions. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 48–60. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [147] Evangelos Kranakis, Danny Krizanc, and Jacob van den Berg. Computing boolean functions on anonymous networks. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 254–267. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [148] M. Krause. Separating  $\oplus l$  from  $l$ ,  $nl$ , co- $nl$  and  $al(= p)$  for oblivious turing machines of linear access time. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of*

*Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 385–391. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [149] H.-J. Kreowski and Z. Qian. Relation-sorted algebraic specifications with built-in coercers: Basic notions and results. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 165–175. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [150] M. Křivánek. The use of graphs of elliptical influence in visual hierarchical clustering. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 392–398. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [151] Daniel Krob. A complete system of b-rational identities. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 60–73. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [152] Werner Kuich.  $\omega$ -continuous semirings, algebraic systems and push-down automata. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 103–110. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [153] M. Kutylowski. Computational power of one-way multihead finite automata. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 176–187. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [154] Marta Z. Kwiatkowska. Defining process fairness for non-interleaving concurrency. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 286–300. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [155] T.W. Lai and D. Wood. Updating almost complete trees or one level makes all the difference. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 188–194. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [156] J.-L. Lambert. Sorting the sums  $(x_i + y_j)$  in  $o(n^2)$  comparisons. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 195–206. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [157] K.-J. Lange and P. Rossmanith. Characterizing unambiguous augmented pushdown automata by circuits. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 399–406. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [158] Kim G. Larsen and Liu Xinxin. Compositionality through an operational semantics of contexts. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 526–539. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [159] M. Latteux and E. Timmerman. Rational  $\omega$ -transductions. In B. Rovan, editor, *Proceedings of the 15th International Symposium*

*on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 407–415. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [160] Ch. Levcopoulos and O. Petersson. Splitsort - an adaptive sorting algorithm. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 416–422. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [161] Christos Levcopoulos and Andrzej Lingas. Fast algorithms for greedy triangulation. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 238–250. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [162] Christos Levcopoulos, Andrzej Lingas, Ola Petersson, and Wojciech Rytter. Optimal parallel algorithms for testing isomorphism of trees and outerplanar graphs. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 204–214. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [163] Christos Levcopoulos and Ola Petersson. Sorting shuffled monotone sequences. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 181–191. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [164] Christopher P. Lewington. Towards constructive program derivation in vdm. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology*

*and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 115–132. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.

- [165] R. Lin and S. Olariu. Fast parallel algorithms for cographs. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 176–189. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [166] Andrezej Lingas. Efficient parallel algorithms for path problems in planar directed graphs. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SI-GAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 447–457. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [167] R.J. Lipton. Efficient checking of computations. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 207–215. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [168] L. Longpré and A.L. Selman. Hard promise problems and nonuniform complexity. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 216–226. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [169] Sophie Malecki. Generic terms having no polymorphic types. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 46–59. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [170] V. Manca and A. Salibra. Equational calculi for many-sorted algebras with empty carrier sets. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 423–429. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [171] M. Masseron, C. Tolle, and J. Vauzeilles. Generating plans in linear logic. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 63–75. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [172] Yossi Matias and Uzi Vishkin. On parallel hashing and integer sorting. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 729–743. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [173] K. Mehlhorn, St. Meiser, and C. O'Dúnlaing. On the construction of abstract voronoi diagrams. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 227–239. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [174] Ch. Meinel. Restricted branching programs and their computational power. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 61–75. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [175] F. Meyer auf der Heide. Dynamic hashing strategies. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica,*

*Czechoslovakia, August 27-31, 1990*), volume 452 of *LNCS*, pages 76–87. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [176] Robin Milner. Functions as processes. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 167–180. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [177] Faron Moller. The importance of the left merge operator in process algebras. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 752–764. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [178] Kazuo Murota. Computing puiseux-series solutions to determinantal equations via combinatorial relaxation. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 271–280. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [179] Hiroshi Nagamochi and Toshihide Ibaraki. Computing edge-connectivity in multiple and capacitated graphs. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 12–20. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [180] Stefan Näher and Kurt Mehlhorn. Leda. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 1–5. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [181] Subhas C. Nandy, Bhargab B. Bhattacharya, and Sibabrata Ray. Efficient algorithms for identifying all maximal isothetic empty rectangles in vlsi layout design. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 255–269. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [182] Kazumiti Numata and Takeshi Tokuyama. Splitting a configuration in a simplex. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 429–438. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [183] E. Ochmański. Semi-commutation and deterministic petri nets. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 430–438. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [184] Thomas Ottmann and Derick Wood. How to update a balanced binary tree with a constant number of rotations. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 122–131. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [185] J. Pach, R. Pollack, and E. Welzl. Weaving patterns of lines and line segments in space. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 439–446. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [186] Catuscia Palamidessi. Algebraic properties of idempotent substitutions. In M.S. Paterson, editor, *Proceedings of the 17th International*

*Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 386–399. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [187] Victor Pan and John Reif. On the bit-complexity of discrete solutions of pdes. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 612–625. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [188] Prakash Panangaden, Vasant Shanbhogue, and Eugene W. Stark. Stability and sequentiality in dataflow networks. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 308–321. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [189] Grammati E. Pantziou, Paul G. Spirakis, and Christos D. Zaroliagis. Efficient parallel algorithms for shortest paths in planar graphs. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 288–300. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [190] Thomas Papadakis, J. Ian Munro, and Patricio V. Poblete. Analysis of the expected search cost in skip lists. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 160–172. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [191] M. Parigot. Internal labellings in lambda-calculus. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 439–445. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [192] Joachim Parrow. Structural and behavioural equivalences of networks. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 540–552. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [193] A. Pasztor. A sup-preserving completion of ordered partial algebras. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 446–456. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [194] David Pearson and Vijay Vazirani. A fast parallel algorithm for finding a maximal bipartite set. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 225–231. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [195] Doron Peled and Amir Pnueli. Proving partial order liveness properties. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 553–571. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [196] Maryse Pelletier. Boolean closure and unambiguity of rational sets. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 512–525. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [197] Wim Pijls and Arie de Bruin. Another view on the sss\* algorithm. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan,*

*August 16-18, 1990*), volume 450 of *LNCS*, pages 211–220. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.

- [198] M. Piotrów. Atime( $n$ ) is closed under counting. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 457–463. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [199] Nicholas Pippenger. Selection networks. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 2–11. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [200] R. Pliuškevičius. Investigation of finitary calculi for the temporal logics by means of infinitary calculi. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 464–469. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [201] Michel Pocchiola. Graphics in flatland revisited. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 85–96. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [202] A. Poigné. Typed horn logic. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 470–477. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [203] Sanjiva Prasad, Alessandro Giacalone, and Prateek Mishra. Operational and algebraic semantics for facile. In M.S. Paterson, editor,

*Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 765–780. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [204] Franco P. Preparata, Jeffrey Scott Vitter, and Mariette Yvinec. Output-sensitive generation of the perspective view of isothetic parallelepipeds. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 71–84. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [205] A. Rabinovich and B.A. Trakhtenbrot. Communication among relations. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 294–307. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [206] Prabhakar Ragde. The parallel simplicity of compaction and chaining. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 744–751. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [207] Sanguthevar Rajasekaran. Randomized parallel selection. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 215–224. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [208] Rajeev Raman. The power of collision: Randomized parallel algorithms for chaining and integer sorting. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90*

(Bangalore, India, December 17-19, 1990), volume 472 of *LNCS*, pages 161–175. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.

- [209] A.A. Razborov. On the distributional complexity of disjointness. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 249–253. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [210] Gianna Reggio. A non-standard inductive semantics. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 362–372. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [211] John Reif and Akhilesh Tyagi. Efficient parallel algorithms for optical computing with the dft primitive. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 149–160. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [212] Dana S. Richards and Jeffrey S. Salowe. A rectilinear steiner minimal tree algorithm for convex point sets. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 201–212. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [213] Jon G. Riecke. A complete and decidable proof system for call-by-value equalities. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 20–31. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [214] I. Sain. Results on the glory of the past. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 478–484. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [215] Nicola Santoro and Peter Widmayer. Distributed function evaluation in the presence of transmission faults. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 358–367. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [216] A. Saoudi, D.E. Muller, and P.E. Schupp. Recognizable infinite tree sets and their complexity. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 91–103. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [217] John E. Savage and Markus G. Wloka. On parallelizing graph-partitioning heuristics. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 476–489. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [218] Haijo Schipper and Mark H. Overmars. Dynamic partition trees. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 404–417. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [219] Uwe Schöning. Complexity cores and hard problem instances. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan,*

*August 16-18, 1990*), volume 450 of *LNCS*, pages 232–240. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.

- [220] Michael I. Schwartzbach. Static correctness of hierarchical procedures. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 32–45. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [221] O. Schwarzkopf, U. Fuchs, G. Rote, and E. Welzl. Approximation of convex figures by pairs of rectangles. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 240–249. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [222] A. Schwill. Nonblocking graphs: Greedy algorithms to compute disjoint paths. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 250–262. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [223] A.L. Selman. One-way functions in complexity theory. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 88–104. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [224] Kurt Sieber. Relating full abstraction results for different programming languages. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 373–387. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.

- [225] Tung-Hsin Su and Ruei-Chuan Chang. The  $k$ -gabriel graphs and their applications. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 66–75. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [226] Ramesh Subrahmanyam. Complexity of algebraic specifications. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 33–47. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [227] Hitoshi Suzuki, Chiseko Yamanaka, and Takao Nishizeki. Parallel algorithms for finding steiner forests in planar graphs. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 458–467. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [228] Xue-Hou Tan, Tomio Hirata, and Yasuyoshi Inagaki. Spatial point location and its applications. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 241–250. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [229] Jorma Tarhio and Esko Ukkonen. Boyer-moore approach to approximate string matching. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 348–359. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [230] W. Thomas. Infinite trees and automaton definable relations over  $\omega$ -words. In C. Choffrut and T. Lengauer, editors, *Proceedings of*

*the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 263–277. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [231] J. Tiuryn. Type inference problems: A survey. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 105–120. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [232] J. Torán. Counting the number of solutions. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 121–134. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [233] Ralf Treinen. A new method for undecidability proofs of first order theories. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 48–62. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [234] Kuo-Hui Tsai and Wen-Lian Hsu. Fast algorithms for the dominating set problem on permutation graphs. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 109–117. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
- [235] Vassilis J. Tsotras, B. Gopinath, and George W. Hart. Optimally managing the history of an evolving forest. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 468–478. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.

- [236] J.V. Tucker, S.S. Wainer, and J.J. Zucker. Provable computable functions on abstract data types. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 660–673. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [237] P.H. Uyen. A stronger version of parikh theorem. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 485–491. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [238] Marc van Kreveld, Mark Overmars, and Pankaj K. Agarwal. Intersection queries in sets of disks. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 393–403. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [239] Gert Vegter. The visibility diagram: A data structure for visibility problems and motion planning. In J.R. Gilbert and R. Karlsson, editors, *Proceedings of the 2nd Scandinavian Workshop on Algorithm Theory, SWAT'90 (Bergen, Norway, July 11-14, 1990)*, volume 447 of *LNCS*, pages 97–110. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [240] Rakesh M. Verma and I.V. Ramakrishnan. Nonoblivious normalization algorithms for nonlinear rewrite systems. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 370–385. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [241] G. Viennot. Enumerative combinatorics and computer science. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90*

(Rouen, France, February 22-24, 1990), volume 415 of *LNCS*, pages 278–284. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [242] V. Vinay and V. Chandru. The expressibility of nondeterministic auxiliary stack automata and its relation to treesize bounded alternating auxiliary pushdown automata. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 104–114. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.
- [243] W. Vogler. Failures semantics based on interval semiwords is a congruence for refinement. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 285–297. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [244] W.G. Vree. Implementation of parallel graph reduction by explicit annotation and program transformation. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 135–151. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [245] S. Waack. The parallel complexity of some constructions in combinatorial group theory. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 492–498. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [246] I. Walukiewicz. Gentzen type axiomatization for pal. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages

- 499–507. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [247] Qingzhou Wang and Kam Hoi Cheng. A heuristic algorithm for the  $k$ -center problem with vertex weight. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 388–396. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
  - [248] Osamu Watanabe. A formal study of learning via queries. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 139–152. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
  - [249] Osamu Watanabe and Seinosuke Toda. Structural analyses on the complexity of inverting functions. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 31–38. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
  - [250] Toshimasa Watanabe, Yasuhiko Higashi, and Akira Nakamura. Graph augmentation problems for a specified set of vertices. In T. Asano, T. Ibaraki, H. Imai, and T. Nishizeki, editors, *Proceedings of the International Symposium on Algorithms, SIGAL'90 (Tokyo, Japan, August 16-18, 1990)*, volume 450 of *LNCS*, pages 378–387. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong Barcelona, 1990.
  - [251] A. Weber. Distance automata having large finite distance or finite ambiguity. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 508–515. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.

- [252] I. Wegener. Bottom up-heap sort, a new variant of heap sort beating on average quick sort. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 516–522. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [253] I. Wegener, N. Wurm, and S.-Z. Yi. Symmetric functions in  $ac^0$  can be computed in constant depth with very small size. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 523–529. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [254] Juraj Wiedermann. Normalizing and accelerating ram computations and the problem of reasonable space measures. In M.S. Paterson, editor, *Proceedings of the 17th International Colloquium on Automata, Languages and Programming, ICALP'90 (Warwick University, England, July 16-20, 1990)*, volume 443 of *LNCS*, pages 125–138. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [255] M. Wiegers. The  $k$ -section of treewidth restricted graphs. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 530–537. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [256] M. Yannakakis. The analysis of local search problems and their heuristics. In C. Choffrut and T. Lengauer, editors, *Proceedings of the 7th Annual Symposium on Theoretical Aspects of Computer Science, STACS'90 (Rouen, France, February 22-24, 1990)*, volume 415 of *LNCS*, pages 298–311. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.
- [257] Li Yan Yuan and Jia-Huai You. Discriminant circumscription. In K.V. Nori and C.E. Veni Madhavan, editors, *Proceedings of the 10th Con-*

*ference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'90 (Bangalore, India, December 17-19, 1990)*, volume 472 of *LNCS*, pages 21–32. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong-Barcelona, 1990.

- [258] T. Zeugmann. Computing large polynomial powers very fast in parallel. In B. Rovan, editor, *Proceedings of the 15th International Symposium on Mathematical Foundations of Computer Science, MFCS'90 (Banská Bystrica, Czechoslovakia, August 27-31, 1990)*, volume 452 of *LNCS*, pages 538–544. Springer-Verlag, Berlin-Heidelberg-New York-London-Paris-Tokyo-Hong Kong, 1990.