

References

- [1] Samson Abramsky. Game semantics: Achievements and prospects. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 1–1. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [2] Micah Adler, Faith Fich, Leslie Ann Goldberg, and Mike Paterson. Tight size bounds for packet headers in narrow meshes. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 756–767. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [3] William Aiello, Sandeep Bhatt, Rafail Ostrovsky, and S.Raj. Rajagopalan. Fast verification of any remote procedure call: Short witness-indistinguishable one-round proofs for np . In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 463–474. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [4] Ali Akhavi and Brigitte Vallée. Average bit-complexity of euclidean algorithms. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 373–387. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [5] Noga Alon, Haim Kaplan, Michael Krivelevich, Dahlia Malkhi, and Julien Stern. Scalable secure storage when half the system is faulty. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and*

Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000), volume 1853 of *LNCS*, pages 576–587. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.

- [6] Stephen Alstrup and Jacob Holm. Improved algorithms for finding level ancestors in dynamic trees. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 73–84. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [7] Christoph Ambühl, Bernd Gärtner, and Bernhard von Stengel. Optimal projective algorithms for the list update problem. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 305–316. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [8] Albert Atserias, Nicola Galesi, and Ricard Gavaldà. Monotone proofs of the pigeon hole principle. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 151–162. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [9] Christel Baier, Boudewijn Haverkort, Holger Hermanns, and Joost-Pieter Katoen. On the logical characterisation of performability properties. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 780–792. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [10] Ganesh Baliga, John Case, Wolfgang Merkle, and Frank Stephan. Unlearning helps. In Ugo Montanari, José D.P. Rolim, and Emo

Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 844–855. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.

- [11] Cyril Banderier, Philippe Flajolet, Gilles Schaeffer, and Michèle Soria. Planar maps and airy phenomena. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 388–402. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [12] Olivier Baudron, David Pointcheval, and Jacques Stern. Extended notions of security for multicast public key cryptosystems. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 499–511. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [13] Birgit Baum-Waidner and Michael Waidner. Round-optimal and abuse-free optimistic multi-party contract signing. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 524–535. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [14] Marie-Pierre Béal and Olivier Carton. Determinization of transducers over infinite words. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 561–570. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [15] Michael A. Bender and Dana Ron. Testing acyclicity of directed graphs in sublinear time. In Ugo Montanari, José D.P. Rolim, and

- Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 809–820. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [16] Johannes Blömer. Closest vectors, successive minima, and dual hkz-bases of lattices. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 248–259. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
 - [17] Beate Bollig and Ingo Wegener. Asymptotically optimal bounds for obdds and the solution of some basic obdd problems. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 187–198. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
 - [18] Endre Boros, Vladimir Gurvich, Leonid Khachiyan, and Kazuhisa Makino. Generating partial and multiple transversals of a hypergraph. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 588–599. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
 - [19] Olivier Bournez and Oded Maler. On the representation of timed polyhedra. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 793–807. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.

- [20] Mario Bravetti and Roberto Gorrieri. A complete axiomatization for observational congruence of prioritized finite-state behaviors. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 744–755. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [21] Andrei Z. Broder. Min-wise independent permutations: Theory and practice. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 808–808. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [22] Roberto Bruni and Vladimiro Sassone. Algebraic models for contextual nets. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 175–186. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [23] Andrei A. Bulatov, Andrei A. Krokhin, and Peter Jeavons. Constraint satisfaction problems and finite algebras. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 272–282. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [24] Josh Buresh-Oppenheim, Toniann Pitassi, Matt Clegg, and Russell Impagliazzo. Homogenization and the polynomial calculus. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 926–937. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.

- [25] Christian Cachin, Jan Camenisch, Joe Kilian, and Joy Müller. One-round secure computation and secure autonomous mobile agents. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 512–523. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [26] Cristiano Calcagno, Eugenio Moggi, and Walid Taha. Closed types as a simple approach to safe imperative multi-stage programming. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 25–36. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [27] Bogdan S. Chlebus, Leszek Gąsieniec, Anna Östlin, and John Michael Robson. Deterministic radio broadcasting. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 717–728. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [28] János Csirik and Gerhard J. Woeginger. Resource augmentation for online bounded space bin packing. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 296–304. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [29] Artur Czumaj and Andrzej Lingas. Fast approximation schemes for euclidean multi-connectivity problems. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 856–868. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.

- [30] Evgeny Dantsin, Andreas Goerdt, Edward A. Hirsch, and Uwe Schöning. Deterministic algorithms for k -sat based on covering codes and local search. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 236–247. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [31] Alfredo de Santis, Giovanni di Crescenzo, and Giuseppe Persiano. Necessary and sufficient assumptions for non-interactive zero-knowledge proofs of knowledge for all np relations. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 451–462. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [32] Volker Diekert and Paul Gastin. Ltl is expressively complete for mazurkiewicz traces. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 211–222. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [33] Hristo N. Djidjev. Computing the girth of a planar graph. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 821–831. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [34] Michael Elkin and David Peleg. Strong inapproximability of the basic k -spanner problem. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 636–647.

Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.

- [35] Lars Engebretsen and Jonas Holmerin. Clique is hard to approximate within $n^{1-o(1)}$. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 2–12. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [36] Gregor Engels and Reiko Heckel. Graph transformation as a conceptual and formal framework for system modeling and model evolution. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 127–150. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [37] Javier Esparza and Keijo Heljanko. A new unfolding approach to ltl model checking. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 475–486. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [38] José Espírito Santo. Revisiting the correspondence between cut elimination and normalisation. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 600–611. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [39] Riccardo Focardi, Roberto Gorrieri, and Fabio Martinelli. Non interference for the analysis of cryptographic protocols. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming*,

ICALP'2000 (Geneva, Switzerland, July 9-15, 2000), volume 1853 of *LNCS*, pages 354–372. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.

- [40] W.J. Fokking and S.P. Luttki. An ω -complete equational specification of interleaving. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 729–743. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [41] Hervé Fournier and Pascal Koiran. Lower bounds are not easier over the reals: Inside *ph*. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 832–843. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [42] Dan R. Ghica and Guy McCusker. Reasoning about idealized algol. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 103–115. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [43] Leslie Ann Goldberg, Mark Jerrum, Sampath Kannan, and Mike Patterson. A bound on the capacity of backoff and acknowledgement-based protocols. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 705–716. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [44] Oded Goldreich. Pseudorandomness. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International*

Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000), volume 1853 of *LNCS*, pages 687–704. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.

- [45] Michelangelo Grigni. Approximate tsp in graphs with forbidden minors. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 869–877. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [46] Torben Hagerup. Improved shortest paths on the word ram. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 61–72. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [47] J. Håstad. Which *np*-hard optimization problems admit non-trivial efficient approximation algorithms? In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 235–235. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [48] Matthew Hennessy and James Riely. Information flow vs. resource access in the asynchronous pi-calculus. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 415–427. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [49] Jesper G. Henriksen, Madhavan Mukund, K. Narayan Kumar, and P.S. Thiagarajan. On message sequence graphs and finitely generated regular msc languages. In Ugo Montanari, José D.P. Rolim, and

- Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 675–686. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [50] Juraj Hromkovič, Juhani Karhumäki, Hartmut Klauck, and Georg Schnitger. Measures of nondeterminism in finite automata. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 199–210. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
 - [51] Klaus Jansen and Lorant Porkolab. Polynomial time approximation schemes for general multiprocessor job shop scheduling. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 878–889. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
 - [52] Juhani Karhumäki and Ion Petre. On the centralizer of a finite set. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 536–546. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
 - [53] Richard M. Karp. The genomics revolution and its challenges for algorithmic research. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 428–428. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
 - [54] Martin Keye. The measurement process in domain theory. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the*

27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000), volume 1853 of *LNCS*, pages 116–126. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.

- [55] Barbara König. Analysing input/output-capabilities of mobile processes with a generic type system. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 403–414. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [56] Michael Krivelevich and Van H. Vu. Approximating the independence number and the chromatic number in expected polynomial time. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 13–24. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [57] Antonín Kučera. Efficient verification algorithms for one-counter processes. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 317–328. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [58] V.S. Anil Kumar, Sunil Arya, and H. Ramesh. Hardness of set cover with intersection 1. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 624–635. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [59] Dietrich Kuske. Infinite series-parallel posets: Logic and languages. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings*

of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000), volume 1853 of *LNCS*, pages 648–662. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.

- [60] Leonid Libkin. Variable independence, quantifier elimination, and constraint representations. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 260–271. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [61] Denis Lugiez and Philippe Schnoebelen. Decidable first-order transition logics for *pa*-processes. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 342–353. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [62] Gerald Lüttgen and Michael Mendler. Fully-abstract statecharts semantics via intuitionistic kripke models. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 163–174. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [63] Jack H. Lutz. Gales and the constructive dimension of individual sequences. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 902–913. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [64] Zohar Manna and Henny B. Sipma. Alternating the temporal picture for safety. In Ugo Montanari, José D.P. Rolim, and Emo

- Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 429–450. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [65] Luciano Margara and Janos Simon. Wavelength assignment problem on all-optical networks with k fibres per link. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 768–779. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
 - [66] Richard Mayr. On the complexity of bisimulation problems for basic parallel processes. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 329–341. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
 - [67] Pierre McKenzie, Thomas Schwentick, Denis Thérien, and Heribert Vollmer. The many faces of a translation. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 890–901. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
 - [68] B. Meenakshi and R. Ramanujam. Reasoning about message passing in finite state environments. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 487–498. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
 - [69] Kurt Mehlhorn. Constraint programming and graph algorithms. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the*

27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000), volume 1853 of *LNCS*, pages 571–575. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.

- [70] Wolfgang Merkle. The global power of additional queries to p -random oracles. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 914–925. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [71] Ben C. Moszkowski. An automata-theoretic completeness proof for interval temporal logic. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 223–234. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [72] Alan Mycroft and Richard Sharp. A statically allocated parallel functional language. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 37–48. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [73] Frank Neven and Thomas Schwentick. On the power of tree-walking automata. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 547–560. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [74] Seth Pettie and Vijaya Ramachandran. An optimal minimum spanning tree algorithm. In Ugo Montanari, José D.P. Rolim, and

Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 49–60. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.

- [75] Reinhard Pichler. Negation elimination from simple equational formulae. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 612–623. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [76] Gordon Plotkin, John Power, Donald Sannella, and Robert Tennent. Lax logical relations. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 85–102. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [77] Steven S. Seiden. An optimal online algorithm for bounded space variable-sized bin packing. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 283–295. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.
- [78] Tomasz Fryderyk Urbański. On deciding if deterministic rabin language is in büchi class. In Ugo Montanari, José D.P. Rolim, and Emo Welzl, editors, *Proceedings of the 27th International Colloquium on Automata, Languages and Programming, ICALP'2000 (Geneva, Switzerland, July 9-15, 2000)*, volume 1853 of *LNCS*, pages 663–674. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 2000.