

References

- [1] Alexander Ageev, Yinyu Ye, and Jiawei Zhang. Improved combinatorial approximation algorithms for the k -level facility location problem. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 145–156. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [2] Susanne Albers and Rob van Stee. A study of integrated document and connection caching. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 653–667. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [3] Amihod Amir, Yonatan Aumann, Richard Cole, Moshe Lewenstein, and Ely Porat. Function matching: Algorithms, applications, and a lower bound. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 929–942. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [4] Davide Ancona, Sonia Fagorzi, Eugenio Moggi, and Elena Zucca. Mixin modules and computational effects. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 224–238. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [5] Luís Antunes and Lance Fortnow. Sophistication revisited. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger,

- ger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 267–277. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [6] Zena M. Ariola and Hugo Herbelin. Minimal classical logic and control operators. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 871–885. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [7] Sanjeev Arora and Kevin L. Chang. Approximation schemes for degree-restricted mst and red-blue separation problem. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 176–188. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [8] Baruch Awerbuch, André Brinkmann, and Christian Scheideler. Anycasting in adversarial systems: Routing and admission control. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 1153–1168. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [9] Vipul Bansal, Aseem Agrawal, and Varun S. Malhotra. Stable marriages with multiple partners: Efficient search for an optimal solution. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 527–

542. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [10] Surender Baswana and Sandeep Sen. A simple linear time algorithm for computing a $(2k - 1)$ -spanner of $o(n^{1+1/k})$ size in weighted graphs. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 384–396. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [11] Noam Berger, Béla Bollobás, Christian Borgs, Jennifer Chayes, and Oliver Riordan. Degree distribution of the fkp network model. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 725–738. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [12] Jan A. Bergstra and Inge Bethke. Polarized process algebra and program equivalence. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 1–21. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [13] Sergei Bspamyatnikh and Michael Segal. Dynamic algorithms for approximating interdistances. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 1169–1180. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [14] Randeep Bhatia, Julia Chuzhoy, Ari Freund, and Joseph (Seffi) Naor. Algorithmic aspects of bandwidth trading. In Jos C.M. Baeten,

- Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 751–766. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [15] Markus Bläser. An improved approximation algorithm for the asymmetric tsp with strengthened triangle inequality. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 157–163. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [16] Daniel Bleichenbacher, Aggelos Kiayias, and Moti Yung. Decoding of interleaved reed solomon codes over noisy data. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 97–108. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [17] Stefan Blom, Wan Fokkink, and Sumit Nain. On the axiomatizability of ready traces, ready simulation, and failure traces. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 109–118. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [18] Vincent D. Blondel and Paul Van Dooren. Similarity matrices for pairs of graphs. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719

of *LNCS*, pages 739–750. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

- [19] Manuel Bodirsky, Clemens Gröpl, and Mihyun Kang. Generating labeled planar graphs uniformly at random. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 1095–1107. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [20] Endre Boros, Khaled Elbassioni, Vladimir Gurvich, Leonid Khachiyan, and Kazuhisa Makino. An intersection inequality for discrete distributions and related generation problems. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 543–555. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [21] Roberto Bruni and José Meseguer. Generalized rewrite theories. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 252–266. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [22] Michele Bugliesi, Silvia Crafa, Amela Prelic, and Vladimiro Sassone. Secrecy in untrusted networks. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 969–983. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [23] Nadia Busi, Maurizio Gabbrielli, and Gianluigi Zavattaro. Replication vs. recursive definitions in channel based calculi. In Jos C.M. Baeten,

- Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 133–144. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [24] Thierry Cachet. Higher order pushdown automata, the causal hierarchy of graphs and parity games. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 556–569. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [25] Arnaud Carayol and Thomas Colcombet. On equivalent representations of infinite structures. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 599–610. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [26] Arkadev Chattopadhyay and Denis Thérien. Locally commutative categories. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 984–995. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [27] Chandra Chekuri, Sudipto Guha, and Joseph (Seffi) Naor. Approximating steiner k -cuts. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 189–199. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

- [28] Chandra Chekuri, Marcelo Mydlarz, and F. Bruce Shepherd. Multicommodity demand flow in a tree. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 410–425. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [29] Jianer Chen, Iyad A. Kanj, Ljubomir Perkovic, Eric Sedgwick, and Ge Xia. Genus characterizes the complexity of graph problems: Some tight results. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 845–856. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [30] Mark Cieliebak, Paola Flocchini, Giuseppe Prencipe, and Nicola Santoro. Solving the robots gathering problem. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 1181–1196. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [31] Amin Coja-Oghlan, Cristopher Moore, and Vishal Sanwalani. Max k -cut and approximating the chromatic number of random graphs. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 200–211. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [32] Anne Condon. Problems on rna secondary structure prediction and design. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003*

- (Eindhoven, The Netherlands, June 30 - July 4, 2003), volume 2719 of *LNCS*, pages 22–32. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [33] Pilu Crescenzi, Giorgio Gambosi, Gaia Nicosia, Paolo Penna, and Walter Unger. Online load balancing made simple: Greedy strikes back. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 1108–1122. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [34] Luca de Alfaro and Marco Faella. Information flow in concurrent games. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 1038–1053. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [35] Luca de Alfaro, Thomas A. Henzinger, and Rupak Majumdar. Discounting the future in systems theory. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 1022–1037. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [36] Annalisa De Bonis, Leszek Gąsieniec, and Ugo Vaccaro. Generalized framework for selectors with applications in optimal group testing. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 81–96. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [37] Brian C. Dean and Michel X. Goemans. Improved approximation algorithms for minimum-space advertisement scheduling. In Jos C.M.

- Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 1138–1152. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [38] Erik D. Demaine, Fedor V. Fomin, Mohammad Taghi Hajiaghayi, and Dimitrios M. Thilikos. Fixed-parameter algorithms for the (k, r) -center in planar graphs and map graphs. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 829–844. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [39] François Denis and Yann Esposito. Residual languages and probabilistic automata. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 452–463. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [40] Ernst-Erich Doberkat. Semi-pullbacks and bisimulations in categories of stochastic relations. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 996–1007. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [41] Manfred Droste and Dietrich Kuske. Skew and infinitary formal power series. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719

- of *LNCS*, pages 426–438. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [42] Cindy Eisner, Dana Fisman, John Havlicek, Anthony McIsaac, and David Van Campenhout. The definition of a temporal clock operator. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 857–870. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [43] Michael Elkin and Guy Kortsarz. Approximation algorithm for directed telephone multicast problem. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 212–223. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [44] Eyal Even-Dar, Alex Kesselman, and Yishay Mansour. Convergence time to nash equilibria. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 502–513. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [45] Rainer Feldmann, Martin Gairing, Thomas Lücking, Burkhard Monien, and Manuel Rode. Nashification and the coordination ratio for a selfish routing game. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 514–526. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [46] Jiří Fiala and Daniël Paulusma. The computational complexity of the role assignment problem. In Jos C.M. Baeten, Jan Karel Lenstra,

- Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 817–828. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [47] Amos Fiat. Some issues regarding search, censorship, and anonymity in peer to peer networks. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 33–33. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [48] Dimitris Fotakis. On the competitive ratio for online facility location. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 637–652. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [49] Gianni Franceschini and Roberto Grossi. Optimal cache-oblivious implicit dictionaries. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 316–331. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [50] Anna Gál and Peter Bro Miltersen. The cell probe complexity of succinct data structures. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 332–344. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [51] Rajiv Gandhi, Eran Halperin, Samir Khuller, Guy Kortsarz, and Arvind Srinivasan. An improved approximation algorithm for vertex

- cover with hard capacities. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 164–175. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [52] Luisa Gargano and Mikael Hammar. There are spanning spiders in dense graphs (and we know how to find them). In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 802–816. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [53] Daniele Gorla and Rosario Pugliese. Resource access and mobility control with dynamic privileges acquisition. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 119–132. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [54] Francisco Gutiérrez and Blas Ruiz. Expansion postponement via cut elimination in sequent calculi for pure type systems. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 956–968. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [55] Alex Hall, Steffen Hippler, and Martin Skutella. Multicommodity flows over time: Efficient algorithms and complexity. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata,*

- Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 397–409. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [56] Jo Hannay. Axiomatic criteria for quotients and subobjects for higher-order data types. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 903–917. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [57] Thomas A. Henzinger, Ranjit Jhala, and Rupak Majumdar. Counterexample-guided control. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 886–902. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [58] John M. Hitchcock, Jack H. Lutz, and Elvira Mayordomo. Scaled dimension and nonuniform complexity. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 278–290. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [59] Markus Holzer and Martin Kutrib. Flip-pushdown automata: $k+1$ pushdown reversals are better than k . In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 490–501. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [60] Peter Høyer, Michele Mosca, and Ronald de Wolf. Quantum search on bounded-error inputs. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim

- Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 291–299. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [61] Juraj Hromkovič and Georg Schnitger. Nondeterminism versus determinism for two-way finite automata: Generalizations of sipser's separation. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 439–451. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [62] Juraj Hromkovič and Georg Schnitger. Pushdown automata and multicounter machines, a comparison of computation modes. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 66–80. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [63] Satoshi Ikeda, Izumi Kubo, Norihiro Okumoto, and Masafumi Yamashita. Impact of local topological information on random walks on finite graphs. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 1054–1067. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [64] Jens Jägersküpper. Analysis of a simple evolutionary algorithm for minimization in euclidean spaces. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4,*

- 2003), volume 2719 of *LNCS*, pages 1068–1079. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [65] Rahul Jain, Jaikumar Radhakrishnan, and Pranab Sen. A direct sum theorem in communication complexity via message compression. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 300–315. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [66] Jan Johannsen and Martin Lange. Ct1^+ is complete for double exponential time. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 767–775. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [67] Juha Kärkkäinen and Peter Sanders. Simple linear work suffix array construction. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 943–955. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [68] Felix Klaedtke and Harald Rueß. Monadic second-order logics with cardinalities. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 681–696. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [69] Amos Korman and David Peleg. Labeling schemes for weighted dynamic trees. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International*

- Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 369–383. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [70] Orna Kupferman and Moshe Y. Vardi. $\pi_2 \cap \sigma_2 \equiv afmc$. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 697–713. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [71] Salvatore La Torre, Margherita Napoli, Mimmo Parente, and Genaro Parlato. Hierarchical and recursive state machines with context-dependent properties. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 776–789. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [72] Yossi Matias and Ely Porat. Efficient pebbling for list traversal synopses. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 918–928. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [73] Richard Mayr. Undecidability of weak bisimulation equivalence for 1-counter processes. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 570–583. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [74] Massimo Merro and Francesco Zappa Nardelli. Bisimulation proof methods for mobile ambients. In Jos C.M. Baeten, Jan Karel Lenstra,

- Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 584–598. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [75] J. Ian Munro, Rajeev Raman, Venkatesh Raman, and Satti Srinivasa Rao. Succinct representations of permutations. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 345–356. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [76] Petra Mutzel. The spqr-tree data structure in graph drawing. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 34–46. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [77] Joseph (Seffi) Naor, Hadas Shachnai, and Tami Tamir. Real-time scheduling with a budget. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 1123–1137. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [78] Alexander Okhotin. Decision problems for language equations with boolean operations. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 239–251. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

- [79] Doron Peled. Model checking and testing combined. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 47–63. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [80] Dominique Poulalhon and Gilles Schaeffer. Optimal coding and sampling of triangulations. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 1080–1094. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [81] Alexander Rabinovich. Quantitative analysis of probabilistic lossy channel systems. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 1008–1021. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [82] Rajeev Raman and Satti Srinivasa Rao. Succinct dynamic dictionaries and trees. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 357–368. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [83] Tatiana Rybina and Andrei Voronkov. Upper bounds for a theory of queues. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 714–724. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

- [84] Philippe Schnoebelen. Oracle circuits for branching-time model checking. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 790–801. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [85] Arnold Schönhage. Adaptive raising strategies optimizing relative efficiency. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 611–623. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [86] Géraud Sénizergues. The equivalence problem for t -turn dpda is $co\text{-}np$. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 478–489. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [87] René A. Sitters, Leen Stougie, and Willem E. de Paepe. A competitive algorithm for the general 2-server problem. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 624–636. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [88] Mariëlle Stoelinga and Frits Vaandrager. A testing scenario for probabilistic automata. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, vol-

ume 2719 of *LNCS*, pages 464–477. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

- [89] Moshe Y. Vardi. Logic and automata: A match made in heaven. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 64–65. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.
- [90] Gaoyan Xie, Zhe Dang, and Oscar H. Ibarra. A solvable class of quadratic diophantine equations with applications to verification of infinite-state systems. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 668–680. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.