

References

- [1] Karl Abrahamson, Andrew Adler, Rachel Gelbart, Lisa Higham, and David Kirkpatrick. The bit complexity of randomized leader election on a ring. *SIAM J. Comput.*, 18(1):12–29, 1989, February.
- [2] Ravindra K. Ahuja, James B. Orlin, and Robert E. Tarjan. Improved time bounds for the maximum flow problem. *SIAM J. Comput.*, 18:939–954, 1989.
- [3] N. Alon and Y. Azar. Finding an approximate maximum. *SIAM J. Comput.*, 18(2):258–267, 1989, April.
- [4] S. Anily and R. Hassin. Ranking the best binary trees. *SIAM J. Comput.*, 18:882–892, 1989.
- [5] Mikhail J. Atallah, Richard Cole, and Michael T. Goodrich. Cascading divide-and-conquer: A technique for designing parallel algorithms. *SIAM J. Comput.*, 18:499–532, 1989.
- [6] Amotz Bar-Noy, Allan Borodin, Mauricio Karchmer, Nathan Linial, and Michael Werman. Bounds on universal sequences. *SIAM J. Comput.*, 18(2):268–277, 1989, April.
- [7] Francisco Barahona and Eva Tardos. Note on weintraub’s minimum-cost circulation algorithm. *SIAM J. Comput.*, 18:579–583, 1989.
- [8] Charles H. Bennett. Time/space trade-offs for reversible computation. *SIAM J. Comput.*, 18:766–776, 1989.
- [9] David Bernstein, Jeffrey M. Jaffe, and Michael Rodeh. Scheduling arithmetic and load operations in parallel with no spilling. *SIAM J. Comput.*, 18:1098–1127, 1989.
- [10] Gianfranco Bilardi and Alexandru Nicolau. Adaptive bitonic sorting: An optimal parallel algorithm for shared-memory machines. *SIAM J. Comput.*, 18(2):216–228, 1989, April.
- [11] Allan Borodin, Stephen A. Cook, Patrick W. Dymond, Walter L. Ruzzo, and Martin Tompa. Two applications of inductive counting for complementation problems. *SIAM J. Comput.*, 18:559–578, 1989. see Erratum in SIAM J. Comput., Vol. 18, 1283.

- [12] Cynthia A. Brown, Larry Finkelstein, and Jr. Purdom, Paul W. A new base change algorithm for permutation groups. *SIAM J. Comput.*, 18:1037–1047, 1989.
- [13] Nader H. Bshouty. A lower bound for matrix multiplication. *SIAM J. Comput.*, 18:759–765, 1989.
- [14] Khaled M. Bugrara, Youfang Pan, and Jr. Purdom, Paul Walton. Exponential average time for the pure literal rule. *SIAM J. Comput.*, 18(2):409–418, 1989, April.
- [15] Jin-Yi Cai, Thomas Gundersmann, Juris Hartmanis, Lane A. Hemachandra, Vivian Sewelson, Klaus Wagner, and Gerd Wechsung. The boolean hierarchy ii: Applications. *SIAM J. Comput.*, 18(1):95–111, 1989, February.
- [16] Edward P.F. Chan. A design theory for solving the anomalies problem. *SIAM J. Comput.*, 18:429–448, 1989.
- [17] Ming-Syan Chen and Kang G. Shin. On relaxed squashed embedding of graphs into a hypercube. *SIAM J. Comput.*, 18:1226–1244, 1989.
- [18] J. Cheriyan and S.N. Maheshwari. Analysis of preflow push algorithms for maximum network flow. *SIAM J. Comput.*, 18:1057–1086, 1989.
- [19] G.W. Cherry. An analysis of the rational exponential integral. *SIAM J. Comput.*, 18:893–905, 1989.
- [20] Michael Clausen. Fast fourier transforms for metabelian groups. *SIAM J. Comput.*, 18:584–593, 1989.
- [21] Brian A. Coan, Danny Dolev, Cynthia Dwork, and Larry Stockmeyer. The distributed firing squad problem. *SIAM J. Comput.*, 18:990–1012, 1989.
- [22] Jr. Coffman, E.G. and J.C. Lagarias. Algorithms for packing squares: A probabilistic analysis. *SIAM J. Comput.*, 18(1):166–185, 1989, February.
- [23] Richard Cole, Jeffrey S. Salowe, W.L. Steiger, and Endre Szemerédi. An optimal-time algorithm for slope selection. *SIAM J. Comput.*, 18:792–810, 1989.

- [24] Karel Culik II, Jan Pachl, and Sheng Yu. On the limit sets of cellular automata. *SIAM J. Comput.*, 18:831–842, 1989.
- [25] Ernst-Erich Doberkat. Topological completeness in an ideal model for polymorphic types. *SIAM J. Comput.*, 18:977–989, 1989.
- [26] Wayne Eberly. Very fast parallel polynomial arithmetic. *SIAM J. Comput.*, 18:955–976, 1989.
- [27] Greg N. Frederickson and Ravi Janardan. Efficient message routing in planar networks. *SIAM J. Comput.*, 18:843–857, 1989.
- [28] Greg N. Frederickson and Mandayam A. Srinivas. Algorithms and data structures for an expanded family of matroid intersection problems. *SIAM J. Comput.*, 18(1):112–138, 1989, February.
- [29] Merrick L. Furst and Ravi Kannan. Succinct certificates for almost all subset sum problems. *SIAM J. Comput.*, 18:550–558, 1989.
- [30] Harold N. Gabow and Robert E. Tarjan. Faster scaling algorithms for network problems. *SIAM J. Comput.*, 18:1013–1036, 1989.
- [31] Zvi Galil, Stuart Haber, and Moti Yung. Minimum-knowledge interactive proofs for decision problems. *SIAM J. Comput.*, 18:711–739, 1989.
- [32] Giorgio Gallo, Michael D. Grigoriadis, and Robert E. Tarjan. A fast parametric maximum flow algorithm and applications. *SIAM J. Comput.*, 18(1):30–55, 1989, February.
- [33] Mark Goldberg and Thomas Spencer. A new parallel algorithm for the maximal independent set problem. *SIAM J. Comput.*, 18(2):419–427, 1989, April.
- [34] Shafi Goldwasser, Silvio Micali, and Charles Rackoff. The knowledge complexity of interactive proof systems. *SIAM J. Comput.*, 18(1):186–208, 1989, February.
- [35] Torben Hagerup, Marek Chrobak, and Krzysztof Diks. Optimal parallel 5-colouring of planar graphs. *SIAM J. Comput.*, 18(2):288–300, 1989, April.

- [36] J. Håstad, B. Just, J.C. Lagarias, and C.P. Schnorr. Polynomial time algorithms for finding integer relations among real numbers. *SIAM J. Comput.*, 18(5):859–881, 1989, October. see Erratum in SIAM J. Comput., Vol. 43, 2014, No. 1, 254–254.
- [37] Keith Humenik. Ratio estimators are maximum-likelihood estimators for non-context-free grammars. *SIAM J. Comput.*, 18:1048–1055, 1989.
- [38] Jing-Jang Hwang, Yuan-Chieh Chow, Frank D. Anger, and Chung-Yee Lee. Scheduling precedence graphs in systems with interprocessor communication times. *SIAM J. Comput.*, 18(2):244–257, 1989, April.
- [39] Costas S. Iliopoulos. Worst-case complexity bounds on algorithms for computing the canonical structure of finite abelian groups and the hermite and smith normal forms of an integer matrix. *SIAM J. Comput.*, 18:658–669, 1989.
- [40] Costas S. Iliopoulos. Worst-case complexity bounds on algorithms for computing the canonical structure of infinite abelian groups and solving systems of linear diophantine equations. *SIAM J. Comput.*, 18:670–678, 1989.
- [41] Neil Immerman. Expressibility and parallel complexity. *SIAM J. Comput.*, 18:625–638, 1989.
- [42] Kazuo Iwama. Cnf satisfiability test by counting and polynomial average time. *SIAM J. Comput.*, 18(2):385–391, 1989, April.
- [43] Philippe Jacquet and Wojciech Szpankowski. Ultimate characterizations of the burst response of an interval searching algorithm: A study of a functional equation. *SIAM J. Comput.*, 18:777–791, 1989.
- [44] Mark Jerrum and Alistair Sinclair. Approximating the permanent. *SIAM J. Comput.*, 18:1149–1178, 1989.
- [45] Ker-I Ko. Relativized polynomial time hierarchies having exactly k levels. *SIAM J. Comput.*, 18(2):392–408, 1989, April.
- [46] Norbert Korte and Rolf H. Möhring. An incremental linear-time algorithm for recognizing interval graphs. *SIAM J. Comput.*, 18(1):68–81, 1989, February.

- [47] George Labahn and Stan Cabay. Matrix padé fractions and their computation. *SIAM J. Comput.*, 18:639–657, 1989.
- [48] Richard E. Ladner. Polynomial space counting problems. *SIAM J. Comput.*, 18:1087–1097, 1989.
- [49] Lawrence L. Larmore. Minimum delay codes. *SIAM J. Comput.*, 18(1):82–94, February, 1989.
- [50] Joseph Y.-T. Leung and Gilbert H. Young. Minimizing schedule length subject to minimum flow time. *SIAM J. Comput.*, 18(2):314–326, 1989, April.
- [51] Shuo-Yen Robert Li. Dynamic programming by exchangeability. *SIAM J. Comput.*, 18:463–472, 1989.
- [52] Zhiyuan Li and Edward M. Reingold. Solution of a divide-and-conquer maximin recurrence. *SIAM J. Comput.*, 18:1188–1200, 1989.
- [53] Thomas Lickteig. A lower bound on the complexity of division in finite extension fields and inversion in quadratic alternative algebras. *SIAM J. Comput.*, 18(2):209–215, 1989, April.
- [54] Riccardo Melen and Jonathan S. Turner. Nonblocking multirate networks. *SIAM J. Comput.*, 18(2):301–313, 1989, April.
- [55] Joseph Naor, Moni Naor, and Alejandro A. Schäffer. Fast parallel algorithms for chordal graphs. *SIAM J. Comput.*, 18(2):327–349, 1989, April.
- [56] G.H. Norton. Precise analyses of the right- and left-shift greatest common divisor algorithms for $gf(q)[x]$. *SIAM J. Comput.*, 18:608–624, 1989.
- [57] Edward T. Ordman. Minimal threshold separators and memory requirements for synchronization. *SIAM J. Comput.*, 18(1):152–165, 1989, February.
- [58] David Peleg and Jeffrey D. Ullman. An optimal synchronizer for the hypercube. *SIAM J. Comput.*, 18:740–747, 1989.

- [59] David Peleg and Eli Upfal. The token distribution problem. *SIAM J. Comput.*, 18(2):229–243, 1989, April.
- [60] Franco P. Preparata and Roberto Tamassia. Fully dynamic point location in a monotone subdivision. *SIAM J. Comput.*, 18:811–830, 1989.
- [61] Sanguthevar Rajasekaran and John H. Reif. Optimal and sublogarithmic time randomized parallel sorting algorithms. *SIAM J. Comput.*, 18:594–607, 1989.
- [62] David Rappaport. Computing simple circuits from a set of line segments is np -complete. *SIAM J. Comput.*, 18:1128–1139, 1989.
- [63] Bala Ravikumar and Oscar H. Ibarra. Relating the type of ambiguity of finite automata to the succinctness of their representation. *SIAM J. Comput.*, 18:1263–1282, 1989.
- [64] James Renegar. On the worst-case arithmetic complexity of approximating zeros of systems of polynomials. *SIAM J. Comput.*, 18(2):350–370, 1989, April.
- [65] Wansoo T. Rhee and Michel Talagrand. The complete convergence of best fit decreasing. *SIAM J. Comput.*, 18:909–918, 1989.
- [66] Wansoo T. Rhee and Michel Talagrand. The complete convergence of first fit decreasing. *SIAM J. Comput.*, 18:919–938, 1989.
- [67] Wansoo T. Rhee and Michel Talagrand. Optimal bin covering with items of random size. *SIAM J. Comput.*, 18:487–498, 1989.
- [68] Wansoo T. Rhee and Michel Talagrand. Optimal bin packing with items of random sizes iii. *SIAM J. Comput.*, 18:473–486, 1989.
- [69] Wansoo T. Rhee and Michel Talagrand. Optimal bin packing with items of random sizes ii. *SIAM J. Comput.*, 18(1):139–151, 1989, February.
- [70] Manfred Schimmler and Christoph Starke. A correction network for n -sorters. *SIAM J. Comput.*, 18:1179–1187, 1989.
- [71] Barbara B. Simons and Manfred K. Warmuth. A fast algorithm for multiprocessor scheduling of unit-length jobs. *SIAM J. Comput.*, 18:690–710, 1989.

- [72] J. Michael Steele and Timothy Law Snyder. Worst-case growth rates of some classical problems of combinatorial optimization. *SIAM J. Comput.*, 18(2):278–287, 1989, April.
- [73] Shouwen Tang and Osamu Watanabe. On tally relativizations of bp -complexity classes. *SIAM J. Comput.*, 18:449–462, 1989.
- [74] Pravin M. Vaidya. Geometry helps in matching. *SIAM J. Comput.*, 18:1201–1225, 1989.
- [75] Pravin M. Vaidya. Space-time trade-offs for orthogonal range queries. *SIAM J. Comput.*, 18:748–758, 1989.
- [76] Umesh V. Vazirani and Vijay V. Vazirani. The two-processor scheduling problem is in random nc . *SIAM J. Comput.*, 18:1140–1148, 1989.
- [77] H. Venkateswaran and Martin Tompa. A new pebble game that characterizes parallel complexity classes. *SIAM J. Comput.*, 18:533–549, 1989.
- [78] Rakesh M. Verma and Steven W. Reyner. An analysis of a good algorithm for the subtree problem, corrected. *SIAM J. Comput.*, 18:906–908, 1989.
- [79] Jeffrey Westbrook and Robert E. Tarjan. Amortized analysis of algorithms for set union with backtracking. *SIAM J. Comput.*, 18(1):1–11, 1989, February.
- [80] Robert Wilber. Lower bounds for accessing binary search trees with rotations. *SIAM J. Comput.*, 18(1):56–67, 1989, February.
- [81] Andrew Chi-Chih Yao. On the complexity of partial order productions. *SIAM J. Comput.*, 18:679–689, 1989.
- [82] F. Frances Yao, David P. Dobkin, Herbert Edelsbrunner, and Michael S. Paterson. Partitioning space for range queries. *SIAM J. Comput.*, 18(2):371–384, 1989, April.
- [83] Kaizhong Zhang and Dennis Shasha. Simple fast algorithms for the editing distance between trees and related problems. *SIAM J. Comput.*, 18:1245–1262, 1989.