

Khaled M Elbassioni

List of Publications by Year in descending order

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146
papers

1,478
citations

535685

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488211

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154
all docs

154
docs citations

154
times ranked

1356
citing authors

#	ARTICLE	IF	CITATIONS
1	Autonomous Recharging and Flight Mission Planning for Battery-Operated Autonomous Drones. IEEE Transactions on Automation Science and Engineering, 2023, 20, 1034-1046.	3.4	32
2	Quasi-polynomial algorithms for list-coloring of nearly intersecting hypergraphs. Theoretical Computer Science, 2022, 902, 64-75.	0.5	0
3	Access Management in Joint Sensing and Communication Systems: Efficiency Versus Fairness. IEEE Transactions on Vehicular Technology, 2022, 71, 5128-5142.	3.9	4
4	Novel Optimal PMU Placement Approach Based on the Network Parameters for Enhanced System Observability and Wide Area Damping Control Capability. IEEE Transactions on Power Systems, 2021, 36, 5345-5358.	4.6	13
5	Generating clause sequences of a CNF formula. Theoretical Computer Science, 2021, 856, 68-74.	0.5	0
6	A Competitive Scheduling Algorithm for Online Demand Response in Islanded Microgrids. IEEE Transactions on Power Systems, 2021, 36, 3430-3440.	4.6	28
7	A QPTAS for ϵ -Envy-Free Profit-Maximizing Pricing on Line Graphs. ACM Transactions on Economics and Computation, 2021, 9, 1-31.	0.7	0
8	A PTAS for a class of binary non-linear programs with low-rank functions. Operations Research Letters, 2021, 49, 633-638.	0.5	1
9	Combinatorial Optimization of AC Optimal Power Flow With Discrete Demands in Radial Networks. IEEE Transactions on Control of Network Systems, 2020, 7, 887-898.	2.4	2
10	A Unified Online Deep Learning Prediction Model for Small Signal and Transient Stability. IEEE Transactions on Power Systems, 2020, 35, 4585-4598.	4.6	69
11	Sphetcher: Spherical Thresholding Improves Sketching of Single-Cell Transcriptomic Heterogeneity. IScience, 2020, 23, 101126.	1.9	3
12	Enumerating Vertices of Covering Polyhedra with Totally Unimodular Constraint Matrices. SIAM Journal on Discrete Mathematics, 2020, 34, 843-864.	0.4	1
13	Computational aspects of optimal strategic network diffusion. Theoretical Computer Science, 2020, 814, 153-168.	0.5	2
14	Multisensor Adaptive Control System for IoT-Empowered Smart Lighting with Oblivious Mobile Sensors. ACM Transactions on Sensor Networks, 2020, 16, 1-21.	2.3	2
15	Approximation Algorithms for Cost-Robust Discrete Minimization Problems Based on Their LP-Relaxations. Lecture Notes in Computer Science, 2020, , 27-37.	1.0	0
16	Dynamic Pricing in Smart Grids Under Thresholding Policies. IEEE Transactions on Smart Grid, 2019, 10, 3415-3429.	6.2	15
17	Peer-to-Peer Energy Sharing. , 2019, , .		22
18	A pseudo-polynomial algorithm for mean payoff stochastic games with perfect information and few random positions. Information and Computation, 2019, 267, 74-95.	0.5	0

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19	Approximation schemes for r-weighted Minimization Knapsack problems. Annals of Operations Research, 2019, 279, 367-386.	2.6	6
20	Complex-demand scheduling problem with application in smart grid. Theoretical Computer Science, 2019, 761, 34-50.	0.5	8
21	A Multiplicative Weight Updates Algorithm for Packing and Covering Semi-infinite Linear Programs. Algorithmica, 2019, 81, 2377-2429.	1.0	2
22	A global parallel algorithm for enumerating minimal transversals of geometric hypergraphs. Theoretical Computer Science, 2019, 767, 26-33.	0.5	2
23	Quantifying Inefficiency of Fair Cost-Sharing Mechanisms for Sharing Economy. IEEE Transactions on Control of Network Systems, 2018, 5, 1809-1818.	2.4	17
24	On the approximability of the maximum interval constrained coloring problem. Discrete Optimization, 2018, 27, 57-72.	0.6	1
25	Optimal Power Flow With Inelastic Demands for Demand Response in Radial Distribution Networks. IEEE Transactions on Control of Network Systems, 2018, 5, 513-524.	2.4	13
26	Efficient Algorithm for Scalable Event-Based Demand Response Management in Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 2714-2725.	6.2	18
27	A Potential Reduction Algorithm for Two-Person Zero-Sum Mean Payoff Stochastic Games. Dynamic Games and Applications, 2018, 8, 22-41.	1.1	6
28	Smart lighting control using oblivious mobile sensors. , 2018, , .		9
29	Challenges in Scheduling Electric Vehicle Charging with Discrete Charging Rates in AC Power Networks. , 2018, , .		7
30	Combinatorial Optimization of Electric Vehicle Charging in AC Power Distribution Networks. , 2018, , .		4
31	Approximation Scheduling Algorithms for Electric Vehicle Charging with Discrete Charging Options. , 2018, , .		5
32	Approximation Schemes for Stochastic Mean Payoff Games with Perfect Information and Few Random Positions. Algorithmica, 2018, 80, 3132-3157.	1.0	0
33	Markov decision processes and stochastic games with total effective payoff. Annals of Operations Research, 2018, , 1.	2.6	1
34	Truthful Mechanisms for Combinatorial Allocation of Electric Power in Alternating Current Electric Systems for Smart Grid. ACM Transactions on Economics and Computation, 2017, 5, 1-29.	0.7	10
35	A nested family of \mathbb{R}^k -total effective rewards for positional games. International Journal of Game Theory, 2017, 46, 263-293.	0.5	3
36	Drive Mode Optimization and Path Planning for Plug-In Hybrid Electric Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 3421-3432.	4.7	44

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37	Approximation algorithms for binary packing problems with quadratic constraints of low cp-rank decompositions. Discrete Applied Mathematics, 2017, 230, 56-70.	0.5	5
38	Guest Editorsâ€™ Foreword. International Journal of Computational Geometry and Applications, 2017, 27, 1-2.	0.3	0
39	A convex programming-based algorithm for mean payoff stochastic games with perfect information. Optimization Letters, 2017, 11, 1499-1512.	0.9	2
40	A polynomial-time algorithm for computing low CP-rank decompositions. Information Processing Letters, 2017, 118, 10-14.	0.4	2
41	Guest Editorsâ€™ Foreword. Algorithmica, 2017, 79, 884-885.	1.0	0
42	A Multiplicative Weights Update Algorithm for Packing and Covering Semi-infinite Linear Programs. Lecture Notes in Computer Science, 2017, , 78-91.	1.0	1
43	Polynomial-Time Alternating Probabilistic Bisimulation for Interval MDPs. Lecture Notes in Computer Science, 2017, , 25-41.	1.0	3
44	Indexing Schemes for Multidimensional Moving Objects. , 2017, , 947-954.		0
45	Computational Geometry Column 66. ACM SIGACT News, 2017, 48, 57-74.	0.1	0
46	Towards More Practical Linear Programming-based Techniques for Algorithmic Mechanism Design. Theory of Computing Systems, 2016, 59, 641-663.	0.7	3
47	Fuel minimization of plug-in hybrid electric vehicles by optimizing drive mode selection. , 2016, , .		6
48	Resolving Conflicting Predictions from Multimapping Reads. Journal of Computational Biology, 2016, 23, 203-217.	0.8	4
49	Sufficient conditions for the existence of Nash equilibria in bimatrix games in terms of forbidden \$2\$ imes \$2\$ subgames. International Journal of Game Theory, 2016, 45, 1111-1131.	0.5	0
50	Complex-Demand Scheduling Problem with Application in Smart Grid. Lecture Notes in Computer Science, 2016, , 496-509.	1.0	4
51	Indexing Schemes for Multi-dimensional Moving Objects. , 2016, , 1-9.		0
52	On Tree-Constrained Matchings and Generalizations. Algorithmica, 2015, 71, 98-119.	1.0	4
53	On Randomized Fictitious Play for Approximating Saddle Points Over Convex Sets. Algorithmica, 2015, 73, 441-459.	1.0	3
54	A Polynomial Delay Algorithm for Generating Connected Induced Subgraphs of a Given Cardinality. Journal of Graph Algorithms and Applications, 2015, 19, 273-280.	0.4	7

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55	Approximation Schemes for Multi-objective Optimization with Quadratic Constraints of Fixed CP-Rank. Lecture Notes in Computer Science, 2015, , 273-287.	1.0	1
56	A Lower Bound for the HBC Transversal Hypergraph Generation. Fundamenta Informaticae, 2014, 130, 409-414.	0.3	4
57	Self-Duality of Polytopes and its Relations to Vertex Enumeration and Graph Isomorphism. Graphs and Combinatorics, 2014, 30, 729-742.	0.2	2
58	A Supermodularity-Based Differential Privacy Preserving Algorithm for Data Anonymization. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 1591-1601.	4.0	25
59	Inapproximability of power allocation with inelastic demands in AC electric systems and networks. , 2014, , .		4
60	A Potential Reduction Algorithm for Ergodic Two-Person Zero-Sum Limiting Average Payoff Stochastic Games. Lecture Notes in Computer Science, 2014, , 694-709.	1.0	2
61	On Canonical Forms for Zero-Sum Stochastic Mean Payoff Games. Dynamic Games and Applications, 2013, 3, 128-161.	1.1	14
62	On Randomized Fictitious Play for Approximating Saddle Points over Convex Sets. Lecture Notes in Computer Science, 2013, , 65-76.	1.0	1
63	On discounted approximations of undiscounted stochastic games and Markov decision processes with limited randomness. Operations Research Letters, 2013, 41, 357-362.	0.5	3
64	Charge Group Partitioning in Biomolecular Simulation. Journal of Computational Biology, 2013, 20, 188-198.	0.8	145
65	A polynomial-delay algorithm for enumerating approximate solutions to the interval constrained coloring problem. Journal of Experimental Algorithmics, 2013, 18, .	0.7	1
66	A Pseudo-Polynomial Algorithm for Mean Payoff Stochastic Games with Perfect Information and a Few Random Positions. Lecture Notes in Computer Science, 2013, , 220-231.	1.0	4
67	Guarding 1.5D terrains with demands. International Journal of Computer Mathematics, 2012, 89, 2143-2151.	1.0	3
68	Modeling the Risk & Utility of Information Sharing in Social Networks. , 2012, , .		3
69	On the complexity of the highway problem. Theoretical Computer Science, 2012, 460, 70-77.	0.5	0
70	Charge Group Partitioning in Biomolecular Simulation. Lecture Notes in Computer Science, 2012, , 29-43.	1.0	7
71	Conflict-Free Coloring for Rectangle Ranges Using $O(n^{.382})$ Colors. Discrete and Computational Geometry, 2012, 48, 39-52.	0.4	11
72	On Nash equilibria and improvement cycles in pure positional strategies for Chess-like and Backgammon-like $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si113.gif" display="inline" overflow="scroll" \rangle \langle \text{mml:mi} \rangle n \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -person games. Discrete Mathematics, 2012, 312, 772-788.	0.4	12

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73	Complexity of approximating the vertex centroid of a polyhedron. Theoretical Computer Science, 2012, 421, 56-61.	0.5	5
74	The relation of Connected Set Cover and Group Steiner Tree. Theoretical Computer Science, 2012, 438, 96-101.	0.5	12
75	A QPTAS for -Envy-Free Profit-Maximizing Pricing on Line Graphs. Lecture Notes in Computer Science, 2012, , 513-524.	1.0	2
76	On the readability of monotone Boolean formulae. Journal of Combinatorial Optimization, 2011, 22, 293-304.	0.8	7
77	Improved Approximations for Guarding 1.5-Dimensional Terrains. Algorithmica, 2011, 60, 451-463.	1.0	27
78	Approximation Algorithms for the Interval Constrained Coloring Problem. Algorithmica, 2011, 61, 342-361.	1.0	2
79	A QPTAS for TSP with Fat Weakly Disjoint Neighborhoods in Doubling Metrics. Discrete and Computational Geometry, 2011, 46, 704-723.	0.4	23
80	The negative cycles polyhedron and hardness of checking some polyhedral properties. Annals of Operations Research, 2011, 188, 63-76.	2.6	7
81	On a cone covering problem. Computational Geometry: Theory and Applications, 2011, 44, 129-134.	0.3	3
82	FINDING SIMPLICES CONTAINING THE ORIGIN IN TWO AND THREE DIMENSIONS. International Journal of Computational Geometry and Applications, 2011, 21, 495-506.	0.3	4
83	Stochastic Mean Payoff Games: Smoothed Analysis and Approximation Schemes. Lecture Notes in Computer Science, 2011, , 147-158.	1.0	13
84	On Tree-Constrained Matchings and Generalizations. Lecture Notes in Computer Science, 2011, , 98-109.	1.0	5
85	Polynomial-time dualization of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si5.gif" display="inline" overflow="scroll" \rangle \langle \text{mml:mi} \rangle r \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -exact hypergraphs with applications in geometry. Discrete Mathematics, 2010, 310, 2356-2363.	0.4	2
86	Left-to-Right Multiplication for Monotone Boolean Dualization. SIAM Journal on Computing, 2010, 39, 3424-3439.	0.8	1
87	On effectivity functions of game forms. Games and Economic Behavior, 2010, 68, 512-531.	0.4	11
88	A Pumping Algorithm for Ergodic Stochastic Mean Payoff Games with Perfect Information. Lecture Notes in Computer Science, 2010, , 341-354.	1.0	13
89	Truthful Mechanisms for Exhibitions. Lecture Notes in Computer Science, 2010, , 170-181.	1.0	6
90	A QPTAS for TSP with Fat Weakly Disjoint Neighborhoods in Doubling Metrics. , 2010, , .		1

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91	Finding Minimal Infrequent Elements in Multi-Dimensional Data Defined over Partially Ordered Sets and its Applications. , 2010, , 98-116.		0
92	On the Approximability of the Maximum Interval Constrained Coloring Problem. Lecture Notes in Computer Science, 2010, , 168-179.	1.0	2
93	APPROXIMATION ALGORITHMS FOR THE EUCLIDEAN TRAVELING SALESMAN PROBLEM WITH DISCRETE AND CONTINUOUS NEIGHBORHOODS. International Journal of Computational Geometry and Applications, 2009, 19, 173-193.	0.3	42
94	Algorithms for Dualization over Products of Partially Ordered Sets. SIAM Journal on Discrete Mathematics, 2009, 23, 487-510.	0.4	14
95	On the approximability of the maximum feasible subsystem problem with 0/1-coefficients. , 2009, , .		6
96	On the Readability of Monotone Boolean Formulae. Lecture Notes in Computer Science, 2009, , 496-505.	1.0	3
97	Output-Sensitive Algorithms for Enumerating Minimal Transversals for Some Geometric Hypergraphs. Lecture Notes in Computer Science, 2009, , 143-154.	1.0	2
98	On Profit-Maximizing Pricing for the Highway and Tollbooth Problems. Lecture Notes in Computer Science, 2009, , 275-286.	1.0	18
99	On Short Paths Interdiction Problems: Total and Node-Wise Limited Interdiction. Theory of Computing Systems, 2008, 43, 204-233.	0.7	72
100	On Enumerating Minimal Dcuts and Strongly Connected Subgraphs. Algorithmica, 2008, 50, 159-172.	1.0	12
101	Generating Cut Conjunctions in Graphs and Related Problems. Algorithmica, 2008, 51, 239-263.	1.0	11
102	Generating All Vertices of a Polyhedron Is Hard. Discrete and Computational Geometry, 2008, 39, 174-190.	0.4	80
103	Simultaneous matchings: Hardness and approximation. Journal of Computer and System Sciences, 2008, 74, 884-897.	0.9	14
104	Generating all minimal integral solutions to AND-OR systems of monotone inequalities: Conjunctions are simpler than disjunctions. Discrete Applied Mathematics, 2008, 156, 2020-2034.	0.5	4
105	On the complexity of monotone dualization and generating minimal hypergraph transversals. Discrete Applied Mathematics, 2008, 156, 2109-2123.	0.5	18
106	A note on systems with max-min and max-product constraints. Fuzzy Sets and Systems, 2008, 159, 2272-2277.	1.6	9
107	On the complexity of checking self-duality of polytopes and its relations to vertex enumeration and graph isomorphism. , 2008, , .		0
108	Approximating the Interval Constrained Coloring Problem. Lecture Notes in Computer Science, 2008, , 210-221.	1.0	8

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109	On Berge Multiplication for Monotone Boolean Dualization. Lecture Notes in Computer Science, 2008, , 48-59.	1.0	2
110	A Complete Characterization of Nash-Solvability of Bimatrix Games in Terms of the Exclusion of Certain 2A–2 Subgames. , 2008, , 99-109.		1
111	Indexing Schemes for Multi-dimensional Moving Objects. , 2008, , 523-529.		0
112	Conflict-free coloring for rectangle ranges using $O(n \cdot 382)$ colors. , 2007, , .		16
113	COMPUTING MANY MAXIMAL INDEPENDENT SETS FOR HYPERGRAPHS IN PARALLEL. Parallel Processing Letters, 2007, 17, 141-152.	0.4	9
114	A Quasi-PTAS for Profit-Maximizing Pricing on Line Graphs. , 2007, , 451-462.		24
115	ENUMERATING SPANNING AND CONNECTED SUBSETS IN GRAPHS AND MATROIDS (<Special Issue>the 50th) Tj ETQq1 1 0.784314 rgBT of Japan, 2007, 50, 325-338.	0.3	6
116	On the dualization of hypergraphs with bounded edge-intersections and other related classes of hypergraphs. Theoretical Computer Science, 2007, 382, 139-150.	0.5	12
117	Enumerating disjunctions and conjunctions of paths and cuts in reliability theory. Discrete Applied Mathematics, 2007, 155, 137-149.	0.5	10
118	A global parallel algorithm for the hypergraph transversal problem. Information Processing Letters, 2007, 101, 148-155.	0.4	26
119	Dual-bounded generating problems: Efficient and inefficient points for discrete probability distributions and sparse boxes for multidimensional data. Theoretical Computer Science, 2007, 379, 361-376.	0.5	6
120	Generating Minimal k-Vertex Connected Spanning Subgraphs. Lecture Notes in Computer Science, 2007, , 222-231.	1.0	10
121	Multiconsistency and Robustness with Global Constraints. Constraints, 2006, 11, 335-352.	0.4	1
122	An efficient implementation of a quasi-polynomial algorithm for generating hypergraph transversals and its application in joint generation. Discrete Applied Mathematics, 2006, 154, 2350-2372.	0.5	37
123	Upper bound on the number of vertices of polyhedra with -constraint matrices. Information Processing Letters, 2006, 100, 69-71.	0.4	2
124	Transversal hypergraphs to perfect matchings in bipartite graphs: Characterization and generation algorithms. Journal of Graph Theory, 2006, 53, 209-232.	0.5	10
125	Conflict-Free Colorings of Rectangles Ranges. Lecture Notes in Computer Science, 2006, , 254-263.	1.0	16
126	Finding All Minimal Infrequent Multi-dimensional Intervals. Lecture Notes in Computer Science, 2006, , 423-434.	1.0	1

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127	On the Complexity of the Multiplication Method for Monotone CNF/DNF Dualization. Lecture Notes in Computer Science, 2006, , 340-351.	1.0	7
128	On Approximating the TSP with Intersecting Neighborhoods. Lecture Notes in Computer Science, 2006, , 213-222.	1.0	15
129	Generating all vertices of a polyhedron is hard. , 2006, , .		10
130	An Indexing Method for Answering Queries on Moving Objects. Distributed and Parallel Databases, 2005, 17, 215-249.	1.0	9
131	Multiconsistency and Robustness with Global Constraints. Lecture Notes in Computer Science, 2005, , 168-182.	1.0	1
132	Approximation Algorithms for Euclidean Group TSP. Lecture Notes in Computer Science, 2005, , 1115-1126.	1.0	36
133	A New Algorithm for the Hypergraph Transversal Problem. Lecture Notes in Computer Science, 2005, , 767-776.	1.0	11
134	Simultaneous Matchings. Lecture Notes in Computer Science, 2005, , 106-115.	1.0	4
135	Generating Maximal Independent Sets for Hypergraphs with Bounded Edge-Intersections. Lecture Notes in Computer Science, 2004, , 488-498.	1.0	21
136	Generating Paths and Cuts in Multi-pole (Di)graphs. Lecture Notes in Computer Science, 2004, , 298-309.	1.0	5
137	An Efficient Implementation of a Joint Generation Algorithm. Lecture Notes in Computer Science, 2004, , 114-128.	1.0	1
138	Extending the Balas-Yu bounds on the number of maximal independent sets in graphs to hypergraphs and lattices. Mathematical Programming, 2003, 98, 355-368.	1.6	6
139	An Efficient Indexing Scheme for Multi-dimensional Moving Objects. Lecture Notes in Computer Science, 2003, , 425-439.	1.0	8
140	An Intersection Inequality for Discrete Distributions and Related Generation Problems. Lecture Notes in Computer Science, 2003, , 543-555.	1.0	12
141	Generating dual-bounded hypergraphs. Optimization Methods and Software, 2002, 17, 749-781.	1.6	17
142	Matroid Intersections, Polymatroid Inequalities, and Related Problems. Lecture Notes in Computer Science, 2002, , 143-154.	1.0	2
143	An Algorithm for Dualization in Products of Lattices and Its Applications. Lecture Notes in Computer Science, 2002, , 424-435.	1.0	7
144	On Dualization in Products of Forests. Lecture Notes in Computer Science, 2002, , 142-153.	1.0	3

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145	BUNDLES REPLACEMENT IN GATEWAYS. , 2001, , .		0
146	Approximation Algorithms for Cost-robust Discrete Minimization Problems Based on their LP-Relaxations. Algorithmica, 0, , .	1.0	0