

Asuman Ã-zdaÄlar

List of Publications by Year in descending order

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112
papers

12,316
citations

109321

35
h-index

85541

71
g-index

113
all docs

113
docs citations

113
times ranked

5946
citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed Subgradient Methods for Multi-Agent Optimization. IEEE Transactions on Automatic Control, 2009, 54, 48-61.	5.7	2,476
2	Systemic Risk and Stability in Financial Networks. American Economic Review, 2015, 105, 564-608.	8.5	1,266
3	The Network Origins of Aggregate Fluctuations. Econometrica, 2012, 80, 1977-2016.	4.2	1,100
4	Bayesian Learning in Social Networks. Review of Economic Studies, 2011, 78, 1201-1236.	5.4	556
5	Opinion Dynamics and Learning in Social Networks. Dynamic Games and Applications, 2011, 1, 3-49.	1.9	459
6	On Distributed Averaging Algorithms and Quantization Effects. IEEE Transactions on Automatic Control, 2009, 54, 2506-2517.	5.7	416
7	Opinion Fluctuations and Disagreement in Social Networks. Mathematics of Operations Research, 2013, 38, 1-27.	1.3	326
8	Optimal Pricing in Networks with Externalities. Operations Research, 2012, 60, 883-905.	1.9	323
9	Spread of (mis)information in social networks. Games and Economic Behavior, 2010, 70, 194-227.	0.8	322
10	Subgradient Methods for Saddle-Point Problems. Journal of Optimization Theory and Applications, 2009, 142, 205-228.	1.5	288
11	Approximate Primal Solutions and Rate Analysis for Dual Subgradient Methods. SIAM Journal on Optimization, 2009, 19, 1757-1780.	2.0	257
12	Distributed Subgradient Methods for Convex Optimization Over Random Networks. IEEE Transactions on Automatic Control, 2011, 56, 1291-1306.	5.7	250
13	Distributed Alternating Direction Method of Multipliers. , 2012, , .		224
14	On the $O(1/k)$ convergence of asynchronous distributed alternating Direction Method of Multipliers. , 2013, , .		209
15	Binary Opinion Dynamics with Stubborn Agents. ACM Transactions on Economics and Computation, 2013, 1, 1-30.	1.1	207
16	Microeconomic Origins of Macroeconomic Tail Risks. American Economic Review, 2017, 107, 54-108.	8.5	196
17	Competition and Efficiency in Congested Markets. Mathematics of Operations Research, 2007, 32, 1-31.	1.3	185
18	A Distributed Newton Method for Network Utility Maximizationâ€™: Algorithm. IEEE Transactions on Automatic Control, 2013, 58, 2162-2175.	5.7	167

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19	On Delay Performance Gains From Network Coding. , 2006, , .		147
20	Convergence rate for consensus with delays. Journal of Global Optimization, 2010, 47, 437-456.	1.8	143
21	An $\mathcal{O}(1/k)$ Gradient Method for Network Resource Allocation Problems. IEEE Transactions on Control of Network Systems, 2014, 1, 64-73.	3.7	139
22	Distributed multi-agent optimization with state-dependent communication. Mathematical Programming, 2011, 129, 255-284.	2.4	126
23	On the Delay and Throughput Gains of Coding in Unreliable Networks. IEEE Transactions on Information Theory, 2008, 54, 5511-5524.	2.4	119
24	Convergence Rate of Distributed ADMM Over Networks. IEEE Transactions on Automatic Control, 2017, 62, 5082-5095.	5.7	115
25	Dynamics of information exchange in endogenous social networks. Theoretical Economics, 2014, 9, 41-97.	0.8	113
26	Distributed subgradient methods and quantization effects. , 2008, , .		110
27	Flows and Decompositions of Games: Harmonic and Potential Games. Mathematics of Operations Research, 2011, 36, 474-503.	1.3	110
28	Competitive Targeted Advertising Over Networks. Operations Research, 2016, 64, 705-720.	1.9	108
29	Avoiding Interruptions – A QoS Reliability Function for Streaming Media Applications. IEEE Journal on Selected Areas in Communications, 2011, 29, 1064-1074.	14.0	79
30	The Price of Simplicity. IEEE Journal on Selected Areas in Communications, 2008, 26, 1269-1276.	14.0	77
31	Accelerated Dual Descent for Network Flow Optimization. IEEE Transactions on Automatic Control, 2014, 59, 905-920.	5.7	75
32	Informational Braess™ Paradox: The Effect of Information on Traffic Congestion. Operations Research, 2018, 66, 893-917.	1.9	75
33	Price and capacity competition. Games and Economic Behavior, 2009, 66, 1-26.	0.8	73
34	Cooperative distributed multi-agent optimization. , 2009, , 340-386.		70
35	A distributed Newton method for Network Utility Maximization. , 2010, , .		63
36	Network Games: Theory, Models, and Dynamics. Synthesis Lectures on Communication Networks, 2011, 4, 1-159.	6.3	63

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37	Dynamics in near-potential games. Games and Economic Behavior, 2013, 82, 66-90.	0.8	58
38	Incentives and Pricing in Communications Networks. , 2007, , 571-592.		52
39	A Distributed Newton Method for Network Utility Maximizationâ€™Part II: Convergence. IEEE Transactions on Automatic Control, 2013, 58, 2176-2188.	5.7	50
40	A variational inequality framework for network games: Existence, uniqueness, convergence and sensitivity analysis. Games and Economic Behavior, 2019, 114, 47-82.	0.8	45
41	Competition in Parallel-Serial Networks. IEEE Journal on Selected Areas in Communications, 2007, 25, 1180-1192.	14.0	44
42	Message Passing Optimization of Harmonic Influence Centrality. IEEE Transactions on Control of Network Systems, 2014, 1, 109-120.	3.7	41
43	Graph balancing for distributed subgradient methods over directed graphs. , 2015, , .		36
44	Opinion fluctuations and persistent disagreement in social networks. , 2011, , .		34
45	Convergence analysis of distributed subgradient methods over random networks. , 2008, , .		32
46	Achievable rate region of CSMA schedulers in wireless networks with primary interference constraints. , 2007, , .		31
47	Generalized Poincaré-Hopf Theorem for Compact Nonsmooth Regions. Mathematics of Operations Research, 2007, 32, 193-214.	1.3	30
48	On Learning With Finite Memory. IEEE Transactions on Information Theory, 2013, 59, 6859-6872.	2.4	30
49	Partially Optimal Routing. IEEE Journal on Selected Areas in Communications, 2007, 25, 1148-1160.	14.0	29
50	On distributed averaging algorithms and quantization effects. , 2008, , .		28
51	Experimentation, Patents, and Innovation. American Economic Journal: Microeconomics, 2011, 3, 37-77.	1.2	28
52	Blind Community Detection From Low-Rank Excitations of a Graph Filter. IEEE Transactions on Signal Processing, 2020, 68, 436-451.	5.3	27
53	Accelerated dual descent for network optimization. , 2011, , .		25
54	A geometric framework for nonconvex optimization duality using augmented lagrangian functions. Journal of Global Optimization, 2008, 40, 545-573.	1.8	24

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55	Privacy-constrained network formation. Games and Economic Behavior, 2017, 105, 255-275.	0.8	24
56	Why random reshuffling beats stochastic gradient descent. Mathematical Programming, 2021, 186, 49-84.	2.4	24
57	Separable and low-rank continuous games. International Journal of Game Theory, 2008, 37, 475-504.	0.5	23
58	Value of Information in Bayesian Routing Games. Operations Research, 2021, 69, 148-163.	1.9	22
59	When Is a Network Epidemic Hard to Eliminate?. Mathematics of Operations Research, 2017, 42, 1-14.	1.3	20
60	Robust Accelerated Gradient Methods for Smooth Strongly Convex Functions. SIAM Journal on Optimization, 2020, 30, 717-751.	2.0	20
61	Rate of Convergence for Consensus with Delays. , 2008, , .		19
62	Convergence Rate of $\mathcal{O}(1/k)$ for Optimistic Gradient and Extragradient Methods in Smooth Convex-Concave Saddle Point Problems. SIAM Journal on Optimization, 2020, 30, 3230-3251.	2.0	19
63	Price competition with elastic traffic. Networks, 2008, 52, 141-155.	2.7	18
64	Spread of (Mis)Information in Social Networks. SSRN Electronic Journal, 0, , .	0.4	18
65	The relation between pseudonormality and quasiregularity in constrained optimization. Optimization Methods and Software, 2004, 19, 493-506.	2.4	17
66	Enhanced Fritz John Conditions for Convex Programming. SIAM Journal on Optimization, 2006, 16, 766-797.	2.0	17
67	Opinion Dynamics and Learning in Social Networks. SSRN Electronic Journal, 2010, , .	0.4	17
68	Iterative Auction Design for Tree Valuations. Operations Research, 2015, 63, 751-771.	1.9	17
69	Optimal reverse carpooling over wireless networks - a distributed optimization approach. , 2010, , .		16
70	A globally convergent incremental Newton method. Mathematical Programming, 2015, 151, 283-313.	2.4	16
71	On the stability of P-matrices. Linear Algebra and Its Applications, 2007, 426, 22-32.	0.9	15
72	Avoiding interruptions - QoE trade-offs in block-coded streaming media applications. , 2010, , .		15

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73	Broadcast-based distributed alternating direction method of multipliers. , 2014, , .		15
74	Approximate dynamic programming using support vector regression. , 2008, , .		14
75	Convergence Study of Decentralized Min-Cost Subgraph Algorithms for Multicast in Coded Networks. IEEE Transactions on Information Theory, 2014, 60, 410-421.	2.4	13
76	Correlated equilibria in continuous games: Characterization and computation. Games and Economic Behavior, 2011, 71, 436-455.	0.8	12
77	On Resource Allocation in Fading Multiple-Access Channelsâ€“An Efficient Approximate Projection Approach. IEEE Transactions on Information Theory, 2010, 56, 4417-4437.	2.4	11
78	Characterization and computation of correlated equilibria in infinite games. , 2007, , .		10
79	On dual convergence of the distributed Newton method for Network Utility Maximization. , 2011, , .		10
80	Analysis and Interventions in Large Network Games. Annual Review of Control, Robotics, and Autonomous Systems, 2021, 4, 455-486.	11.8	10
81	Competitive equilibrium in electricity markets with heterogeneous users and price fluctuation penalty. , 2014, , .		9
82	A distributed newton method for dynamic Network Utility Maximization with delivery contracts. , 2012, , .		8
83	Local Indices for Degenerate Variational Inequalities. Mathematics of Operations Research, 2008, 33, 291-300.	1.3	7
84	Systemic credit freezes in financial lending networks. Mathematics and Financial Economics, 2021, 15, 185-232.	1.7	7
85	Separation of Nonconvex Sets with General Augmenting Functions. Mathematics of Operations Research, 2008, 33, 587-605.	1.3	6
86	Randomness and permutations in coordinate descent methods. Mathematical Programming, 2020, 181, 349-376.	2.4	6
87	Competitive Rumor Spread in Social Networks. Performance Evaluation Review, 2017, 44, 7-14.	0.6	6
88	Access-network association policies for media streaming in heterogeneous environments. , 2010, , .		5
89	The value of storage in securing reliability and mitigating risk in energy systems. Energy Systems, 2015, 6, 129-152.	3.0	5
90	Community Inference from Graph Signals with Hidden Nodes. , 2019, , .		5

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91	Imperfect randomized algorithms for the optimal control of wireless networks. , 2008, , .		4
92	Graphon Games: A Statistical Framework for Network Games and Interventions. SSRN Electronic Journal, 0, , .	0.4	4
93	Community Inference From Partially Observed Graph Signals: Algorithms and Analysis. IEEE Transactions on Signal Processing, 2022, 70, 2136-2151.	5.3	4
94	Rate and power allocation in fading multiple access channels. , 2008, , .		3
95	Dynamic rate allocation in fading multiple access channels. , 2008, , .		3
96	Asynchronous Approximation of a Single Component of the Solution to a Linear System. IEEE Transactions on Network Science and Engineering, 2020, 7, 975-986.	6.4	3
97	Paradoxes of Traffic Engineering with Partially Optimal Routing. , 2006, , .		2
98	Competition With Atomic Users. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	2
99	Information theory vs. queueing theory for resource allocation in multiple access channels. , 2008, , .		2
100	Coding and control for communication networks. Queueing Systems, 2009, 63, 195-216.	0.9	2
101	The reliability value of storage in a volatile environment. , 2012, , .		2
102	Convergence rate of block-coordinate maximization Burerâ€™Monteiro method for solving large SDPs. Mathematical Programming, 2022, 195, 243-281.	2.4	2
103	Computing correlated equilibria of polynomial games via adaptive discretization. , 2008, , .		1
104	Structure of extreme correlated equilibria: a zero-sum example and its implications. International Journal of Game Theory, 2011, 40, 749-767.	0.5	1
105	Partial results on social learning with observations from neighbors. , 2007, , .		0
106	Stock repurchase with an adaptive reservation price: A study of the greedy policy. Operations Research Letters, 2011, 39, 22-27.	0.7	0
107	Call for Papersâ€™Special Issue of <i>Operations Research</i>: Information and Decisions in Social and Economic Networks. Operations Research, 2012, 60, 1565-1565.	1.9	0
108	Strategic Form Games and Nash Equilibrium. , 2013, , 1-12.		0

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109	Call for Papersâ€™Special Issue of <i>Operations Research</i>: Information and Decisions in Social and Economic Networks. Operations Research, 2013, 61, 529-529.	1.9	0
110	Preface to the Special Issue on Information and Decisions in Social and Economic Networks. Operations Research, 2016, 64, 561-563.	1.9	0
111	Interconnection and Memory in Linear Time-Invariant Systems. IEEE Transactions on Automatic Control, 2019, 64, 1890-1904.	5.7	0
112	Strategic Form Games and Nash Equilibrium. , 2021, , 2204-2212.		0