

Zongpeng Li

List of Publications by Year in descending order

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132
papers

2,815
citations

279487

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132
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132
docs citations

132
times ranked

2273
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic resource provisioning in cloud computing: A randomized auction approach. , 2014, , .		142
2	Moving Big Data to The Cloud: An Online Cost-Minimizing Approach. IEEE Journal on Selected Areas in Communications, 2013, 31, 2710-2721.	9.7	110
3	Online Scaling of NFV Service Chains Across Geo-Distributed Datacenters. IEEE/ACM Transactions on Networking, 2018, 26, 699-710.	2.6	95
4	A Constant Bound on Throughput Improvement of Multicast Network Coding in Undirected Networks. IEEE Transactions on Information Theory, 2009, 55, 1016-1026.	1.5	90
5	Scaling Social Media Applications Into Geo-Distributed Clouds. IEEE/ACM Transactions on Networking, 2015, 23, 689-702.	2.6	86
6	A truthful incentive mechanism for emergency demand response in colocation data centers. , 2015, , .		76
7	Proactive VNF provisioning with multi-timescale cloud resources: Fusing online learning and online optimization. , 2017, , .		75
8	Multicast Network Coding and Field Sizes. IEEE Transactions on Information Theory, 2015, 61, 6182-6191.	1.5	74
9	An online auction framework for dynamic resource provisioning in cloud computing. , 2014, , .		72
10	Online Job Scheduling in Distributed Machine Learning Clusters. , 2018, , .		72
11	Orchestrating Bulk Data Transfers across Geo-Distributed Datacenters. IEEE Transactions on Cloud Computing, 2017, 5, 112-125.	3.1	67
12	An Efficient Cloud Market Mechanism for Computing Jobs With Soft Deadlines. IEEE/ACM Transactions on Networking, 2017, 25, 793-805.	2.6	62
13	Software Defined Cooperative Offloading for Mobile Cloudlets. IEEE/ACM Transactions on Networking, 2017, 25, 1746-1760.	2.6	61
14	A Truthful Online Mechanism for Location-Aware Tasks in Mobile Crowd Sensing. IEEE Transactions on Mobile Computing, 2018, 17, 1737-1749.	3.9	58
15	Dynamic Bandwidth Auctions in Multioverlay P2P Streaming with Network Coding. IEEE Transactions on Parallel and Distributed Systems, 2008, 19, 806-820.	4.0	56
16	When smart grid meets geo-distributed cloud: An auction approach to datacenter demand response. , 2015, , .		55
17	An efficient auction mechanism for service chains in the NFV market. , 2016, , .		54
18	Profit-maximizing virtual machine trading in a federation of selfish clouds. , 2013, , .		53

#	ARTICLE	IF	CITATIONS
19	Online procurement auctions for resource pooling in client-assisted cloud storage systems. , 2015, , .		46
20	Energy efficient real-time task scheduling on CPU-GPU hybrid clusters. , 2017, , .		42
21	A novel protocol for multiparty quantum key management. Quantum Information Processing, 2015, 14, 2959-2980.	1.0	39
22	Cost-Minimizing Dynamic Migration of Content Distribution Services into Hybrid Clouds. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 3330-3345.	4.0	39
23	Network coding for quantum cooperative multicast. Quantum Information Processing, 2015, 14, 4297-4322.	1.0	39
24	Bounding the Coding Advantage of Combination Network Coding in Undirected Networks. IEEE Transactions on Information Theory, 2012, 58, 570-584.	1.5	38
25	Network Latency Estimation for Personal Devices: A Matrix Completion Approach. IEEE/ACM Transactions on Networking, 2017, 25, 724-737.	2.6	37
26	Online Auctions in IaaS Clouds. , 2015, , .		36
27	An online procurement auction for power demand response in storage-assisted smart grids. , 2015, , .		36
28	Scaling Geo-Distributed Network Function Chains: A Prediction and Learning Framework. IEEE Journal on Selected Areas in Communications, 2019, 37, 1838-1850.	9.7	35
29	A Truthful and Efficient Incentive Mechanism for Demand Response in Green Datacenters. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 1-15.	4.0	34
30	Demand Response in Smart Grids: A Randomized Auction Approach. IEEE Journal on Selected Areas in Communications, 2015, 33, 2540-2553.	9.7	33
31	Online Stochastic Buy-Sell Mechanism for VNF Chains in the NFV Market. IEEE Journal on Selected Areas in Communications, 2017, 35, 392-406.	9.7	31
32	Bilateral Electricity Trade Between Smart Grids and Green Datacenters: Pricing Models and Performance Evaluation. IEEE Journal on Selected Areas in Communications, 2016, 34, 3993-4007.	9.7	30
33	Scheduling Frameworks for Cloud Container Services. IEEE/ACM Transactions on Networking, 2018, 26, 436-450.	2.6	30
34	Cost-minimizing dynamic migration of content distribution services into hybrid clouds. , 2012, , .		29
35	A prior-free revenue maximizing auction for secondary spectrum access. , 2011, , .		27
36	Quantum network coding for multi-unicast problem based on 2D and 3D cluster states. Science China Information Sciences, 2016, 59, 1.	2.7	25

#	ARTICLE	IF	CITATIONS
37	Virtual Machine Trading in a Federation of Clouds: Individual Profit and Social Welfare Maximization. IEEE/ACM Transactions on Networking, 2016, 24, 1827-1840.	2.6	25
38	Space information flow: Multiple unicast. , 2012, , .		23
39	Core-Selecting Auctions for Dynamically Allocating Heterogeneous VMs in Cloud Computing. , 2014, , .		23
40	Circular-Shift Linear Network Coding. IEEE Transactions on Information Theory, 2019, 65, 65-80.	1.5	23
41	Designing Truthful Spectrum Auctions for Multi-hop Secondary Networks. IEEE Transactions on Mobile Computing, 2015, 14, 316-327.	3.9	22
42	A Truthful $(1-\epsilon)$ -Optimal Mechanism for On-demand Cloud Resource Provisioning. IEEE Transactions on Cloud Computing, 2019, , 1-1.	3.1	22
43	Colocation Demand Response: Joint Online Mechanisms for Individual Utility and Social Welfare Maximization. IEEE Journal on Selected Areas in Communications, 2016, 34, 3978-3992.	9.7	21
44	An Efficient Online Placement Scheme for Cloud Container Clusters. IEEE Journal on Selected Areas in Communications, 2019, 37, 1046-1058.	9.7	21
45	ReDiSen: Reputation-based secure cooperative sensing in distributed cognitive radio networks. , 2013, , .		20
46	Auction-Based On-Demand P2P Min-Cost Media Streaming with Network Coding. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 1816-1829.	4.0	19
47	A Scalable and Distributed Approach for NFV Service Chain Cost Minimization. , 2017, , .		19
48	A Shapley-Value Mechanism for Bandwidth On Demand between Datacenters. IEEE Transactions on Cloud Computing, 2018, 6, 19-32.	3.1	19
49	Signal Alignment: Enabling Physical Layer Network Coding for MIMO Networking. IEEE Transactions on Wireless Communications, 2013, 12, 3012-3023.	6.1	18
50	Preserving Privacy in WiFi Localization With Plausible Dummy Locations. IEEE Transactions on Vehicular Technology, 2020, 69, 11909-11925.	3.9	18
51	Min-cost multicast networks in Euclidean space. , 2012, , .		16
52	Core-selecting combinatorial auction design for secondary spectrum markets. , 2013, , .		16
53	Improving Throughput in Multihop Wireless Networks. IEEE Transactions on Vehicular Technology, 2006, 55, 762-773.	3.9	15
54	Fair rewarding in colocation data centers: Truthful mechanism for emergency demand response. , 2015, , .		15

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55	Socially-optimal online spectrum auctions for secondary wireless communication. , 2015, , .		15
56	Optimal multicast in multi-channel multi-radio wireless networks. , 2009, , .		14
57	Improving Sustainability of Private P2P Communities. , 2011, , .		14
58	A Geometric Perspective to Multiple-Unicast Network Coding. IEEE Transactions on Information Theory, 2014, 60, 2884-2895.	1.5	14
59	Utility-Maximizing Data Dissemination in Socially Selfish Cognitive Radio Networks. , 2011, , .		13
60	False data separation for data security in smart grids. Knowledge and Information Systems, 2017, 52, 815-834.	2.1	13
61	Truthful spectrum auction design for secondary networks. , 2012, , .		12
62	Stochastic optimal multirate multicast in socially selfish wireless networks. , 2012, , .		12
63	Core-Selecting Secondary Spectrum Auctions. IEEE Journal on Selected Areas in Communications, 2014, 32, 2268-2279.	9.7	12
64	Circular-Shift Linear Network Codes With Arbitrary Odd Block Lengths. IEEE Transactions on Communications, 2019, 67, 2660-2672.	4.9	12
65	Dynamic file-selection policies for bundling in BitTorrent-like systems. , 2010, , .		11
66	A geometric framework for investigating the multiple unicast network coding conjecture. , 2012, , .		11
67	Designing Two-Dimensional Spectrum Auctions for Mobile Secondary Users. IEEE Journal on Selected Areas in Communications, 2013, 31, 604-613.	9.7	11
68	Device-to-Device Load Balancing for Cellular Networks. , 2015, , .		11
69	Device-to-Device Load Balancing for Cellular Networks. IEEE Transactions on Communications, 2019, 67, 3040-3054.	4.9	11
70	On Space Information Flow: Single multicast. , 2013, , .		10
71	Incentivize cooperative sensing in distributed cognitive radio networks with reputation-based pricing. , 2014, , .		10
72	Occupation-Oblivious Pricing of Cloud Jobs via Online Learning. , 2018, , .		10

#	ARTICLE	IF	CITATIONS
73	A Reduction Approach to the Multiple-Unicast Conjecture in Network Coding. IEEE Transactions on Information Theory, 2018, 64, 4530-4539.	1.5	10
74	Online Task Offloading for 5G Small Cell Networks. IEEE Transactions on Mobile Computing, 2022, 21, 2103-2115.	3.9	10
75	Optimization Models for Streaming in Multihop Wireless Networks. , 2007, , .		9
76	Strategyproof Wireless Spectrum Auctions with Interference. , 2010, , .		9
77	Federated Private Clouds via Broker's Marketplace: A Stackelberg-Game Perspective. , 2014, , .		9
78	Online Electricity Cost Saving Algorithms for Co-Location Data Centers. IEEE Journal on Selected Areas in Communications, 2015, 33, 2906-2919.	9.7	9
79	On Base Field of Linear Network Coding. IEEE Transactions on Information Theory, 2016, 62, 7272-7282.	1.5	9
80	Energy Scheduling for Networked Microgrids With Co-Generation and Energy Storage. IEEE Internet of Things Journal, 2019, 6, 7722-7736.	5.5	9
81	Resources Sharing in 5G Networks: Learning-Enabled Incentives and Coalitional Games. IEEE Systems Journal, 2021, 15, 226-237.	2.9	9
82	Throughput and Energy Efficiency in Wireless Ad Hoc Networks With Gaussian Channels. IEEE/ACM Transactions on Networking, 2012, 20, 15-28.	2.6	8
83	Dynamic scaling of VoD services into hybrid clouds with cost minimization and QoS guarantee. , 2012, , .		8
84	Hierarchical Virtual Machine Placement in Modular Data Centers. , 2015, , .		8
85	Robust web service recommendation via quantile matrix factorization. , 2017, , .		8
86	Online Energy Management and Heterogeneous Task Scheduling for Smart Communities with Residential Cogeneration and Renewable Energy. Energies, 2018, 11, 2104.	1.6	8
87	A Note on the Multiple-Unicast Network Coding Conjecture. IEEE Communications Letters, 2014, 18, 869-872.	2.5	7
88	On the Performance of Network Coding for Multicast Data Delivery in Large Scale Mobile Ad Hoc Networks. , 2010, , .		6
89	A recursive partitioning algorithm for space information flow. , 2014, , .		6
90	Online Placement and Scaling of Geo-Distributed Machine Learning Jobs via Volume-Discounting Brokerage. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 948-966.	4.0	6

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91	Optimizing Parallel I/O Accesses through Pattern-Directed and Layout-Aware Replication. IEEE Transactions on Computers, 2020, 69, 212-225.	2.4	6
92	A Truthful Procurement Auction for Incentivizing Heterogeneous Clients in Federated Learning. , 2021, , .		6
93	Energy-Aware Non-Preemptive Task Scheduling With Deadline Constraint in DVFS-Enabled Heterogeneous Clusters. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 4083-4099.	4.0	6
94	Group Strategyproof Multicast in Wireless Networks. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 708-715.	4.0	5
95	Information multicast in (pseudo-)planar networks: Efficient network coding over small finite fields. , 2013, , .		5
96	An Online Auction for Deadline-Aware Dynamic Cloud Resource Provisioning. , 2016, , .		5
97	Circular-shift linear network coding. , 2017, , .		5
98	Online Scheduling Algorithm for Heterogeneous Distributed Machine Learning Jobs. IEEE Transactions on Cloud Computing, 2023, 11, 1514-1529.	3.1	5
99	Preemptive Scheduling for Distributed Machine Learning Jobs in Edge-Cloud Networks. IEEE Journal on Selected Areas in Communications, 2022, 40, 2411-2425.	9.7	5
100	On benefits of network coding in bidirected networks and hyper-networks. , 2012, , .		4
101	A graph minor perspective to network coding: Connecting algebraic coding with network topologies. , 2013, , .		4
102	Socially-optimal multi-hop secondary communication under arbitrary primary user mechanisms. , 2013, , .		4
103	Optimal multicast in virtualized datacenter networks with software switches. , 2017, , .		4
104	A Novel Auction-Based Query Pricing Schema. International Journal of Parallel Programming, 2019, 47, 759-780.	1.1	4
105	Dynamic Pricing and Placement for Distributed Machine Learning Jobs. , 2020, , .		4
106	On Achieving Group-Strategyproof Multicast. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 913-923.	4.0	3
107	Tsunami: massively parallel homomorphic hashing on many-core GPUs. Concurrency Computation Practice and Experience, 2012, 24, 2028-2039.	1.4	3
108	A Graph Minor Perspective to Multicast Network Coding. IEEE Transactions on Information Theory, 2014, 60, 5375-5386.	1.5	3

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109	Constructing multicast networks where vector linear coding outperforms scalar linear coding. , 2015, , .		3
110	Systematic Memory MDS Sliding Window Codes Over Erasure Channels. IEEE Transactions on Communications, 2021, 69, 1417-1430.	4.9	3
111	Online Scheduling of Distributed Machine Learning Jobs for Incentivizing Sharing in Multi-Tenant Systems. IEEE Transactions on Computers, 2022, , 1-1.	2.4	3
112	The Cost Advantage of Network Coding in Uniform Combinatorial Networks. , 2008, , .		2
113	Stochastic Multicast with Network Coding. , 2009, , .		2
114	Throughput and Energy Efficiency in Wireless Ad Hoc Networks with Gaussian Channels. , 2010, , .		2
115	Exploring the Sustainability of Credit-incentivized Peer-to-Peer Content Distribution. , 2012, , .		2
116	A matroid theory approach to multicast network coding. , 2014, , .		2
117	Circular-shift Linear Network Codes with Arbitrary Odd Block Lengths. , 2018, , .		2
118	Scalable Network Coding over Embedded Fields. , 2021, , .		2
119	Dynamic service placement and request scheduling for edge networks. Computer Networks, 2022, 213, 108997.	3.2	2
120	Physical Layer Network Coding with Signal Alignment for MIMO Wireless Networks. , 2011, , .		1
121	On uniform matroidal networks. , 2013, , .		1
122	Software Defined Mobile Multicast. , 2015, , .		1
123	A Delaunay Triangulation Approach to Space Information Flow. , 2016, , .		1
124	A Prior-Free Spectrum Auction for Approximate Revenue Maximization. Computer Journal, 2017, 60, 898-910.	1.5	1
125	Exact and heuristic algorithms for Space Information Flow. PLoS ONE, 2018, 13, e0193350.	1.1	1
126	Enforcing Minimum-Cost Multicast Routing against Selfish Information Flows. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 1299-1308.	4.0	0

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127	Capacity bounds for energy efficient data streaming in homogeneous wireless ad hoc networks. , 2011, , .		0
128	Feasible Capacity of Distributed Beamforming in Multi-Hop Wireless Sensor Networks. , 2011, , .		0
129	Barrier Counting in Mixed Wireless Sensor Networks. , 2012, , .		0
130	Improving sustainability of BitTorrent darknets. Peer-to-Peer Networking and Applications, 2014, 7, 539-554.	2.6	0
131	Bounding the Advantage of Multicast Network Coding in General Network Models. IEEE Transactions on Communications, 2014, 62, 1023-1032.	4.9	0
132	Iterative Soft Decoding of Single Parity Check Convolutional Concatenated Code. , 2021, , .		0