

# Zongpeng Li

## List of Publications by Year in descending order

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132  
papers

2,815  
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279487

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132  
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132  
docs citations

132  
times ranked

2273  
citing authors

#	ARTICLE	IF	CITATIONS
1	Online Scheduling Algorithm for Heterogeneous Distributed Machine Learning Jobs. IEEE Transactions on Cloud Computing, 2023, 11, 1514-1529.	3.1	5
2	Online Task Offloading for 5G Small Cell Networks. IEEE Transactions on Mobile Computing, 2022, 21, 2103-2115.	3.9	10
3	Online Scheduling of Distributed Machine Learning Jobs for Incentivizing Sharing in Multi-Tenant Systems. IEEE Transactions on Computers, 2022, , 1-1.	2.4	3
4	Dynamic service placement and request scheduling for edge networks. Computer Networks, 2022, 213, 108997.	3.2	2
5	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
6	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
7	Resources Sharing in 5G Networks: Learning-Enabled Incentives and Coalitional Games. IEEE Systems Journal, 2021, 15, 226-237.	2.9	9
8	Systematic Memory MDS Sliding Window Codes Over Erasure Channels. IEEE Transactions on Communications, 2021, 69, 1417-1430.	4.9	3
9	Iterative Soft Decoding of Single Parity Check Convolutional Concatenated Code. , 2021, , .		0
10	A Truthful Procurement Auction for Incentivizing Heterogeneous Clients in Federated Learning. , 2021, , .		6
11	Scalable Network Coding over Embedded Fields. , 2021, , .		2
12	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
13	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
14	Optimizing Parallel I/O Accesses through Pattern-Directed and Layout-Aware Replication. IEEE Transactions on Computers, 2020, 69, 212-225.	2.4	6
15	Dynamic Pricing and Placement for Distributed Machine Learning Jobs. , 2020, , .		4
16	Preserving Privacy in WiFi Localization With Plausible Dummy Locations. IEEE Transactions on Vehicular Technology, 2020, 69, 11909-11925.	3.9	18
17	Circular-Shift Linear Network Coding. IEEE Transactions on Information Theory, 2019, 65, 65-80.	1.5	23
18	A Novel Auction-Based Query Pricing Schema. International Journal of Parallel Programming, 2019, 47, 759-780.	1.1	4

#	ARTICLE	IF	CITATIONS
19	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
20	An Efficient Online Placement Scheme for Cloud Container Clusters. IEEE Journal on Selected Areas in Communications, 2019, 37, 1046-1058.	9.7	21
21	Energy Scheduling for Networked Microgrids With Co-Generation and Energy Storage. IEEE Internet of Things Journal, 2019, 6, 7722-7736.	5.5	9
22	Device-to-Device Load Balancing for Cellular Networks. IEEE Transactions on Communications, 2019, 67, 3040-3054.	4.9	11
23	Circular-Shift Linear Network Codes With Arbitrary Odd Block Lengths. IEEE Transactions on Communications, 2019, 67, 2660-2672.	4.9	12
24	A Truthful $(1-\epsilon)$ -Optimal Mechanism for On-demand Cloud Resource Provisioning. IEEE Transactions on Cloud Computing, 2019, , 1-1.	3.1	22
25	A Shapley-Value Mechanism for Bandwidth On Demand between Datacenters. IEEE Transactions on Cloud Computing, 2018, 6, 19-32.	3.1	19
26	Online Scaling of NFV Service Chains Across Geo-Distributed Datacenters. IEEE/ACM Transactions on Networking, 2018, 26, 699-710.	2.6	95
27	Scheduling Frameworks for Cloud Container Services. IEEE/ACM Transactions on Networking, 2018, 26, 436-450.	2.6	30
28	Online Energy Management and Heterogeneous Task Scheduling for Smart Communities with Residential Cogeneration and Renewable Energy. Energies, 2018, 11, 2104.	1.6	8
29	Circular-shift Linear Network Codes with Arbitrary Odd Block Lengths. , 2018, , .		2
30	Occupation-Oblivious Pricing of Cloud Jobs via Online Learning. , 2018, , .		10
31	Online Job Scheduling in Distributed Machine Learning Clusters. , 2018, , .		72
32	A Reduction Approach to the Multiple-Unicast Conjecture in Network Coding. IEEE Transactions on Information Theory, 2018, 64, 4530-4539.	1.5	10
33	A Truthful Online Mechanism for Location-Aware Tasks in Mobile Crowd Sensing. IEEE Transactions on Mobile Computing, 2018, 17, 1737-1749.	3.9	58
34	Exact and heuristic algorithms for Space Information Flow. PLoS ONE, 2018, 13, e0193350.	1.1	1
35	Orchestrating Bulk Data Transfers across Geo-Distributed Datacenters. IEEE Transactions on Cloud Computing, 2017, 5, 112-125.	3.1	67
36	False data separation for data security in smart grids. Knowledge and Information Systems, 2017, 52, 815-834.	2.1	13

#	ARTICLE	IF	CITATIONS
37	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
38	Software Defined Cooperative Offloading for Mobile Cloudlets. IEEE/ACM Transactions on Networking, 2017, 25, 1746-1760.	2.6	61
39	A Scalable and Distributed Approach for NFV Service Chain Cost Minimization. , 2017, , .		19
40	A Prior-Free Spectrum Auction for Approximate Revenue Maximization. Computer Journal, 2017, 60, 898-910.	1.5	1
41	Robust web service recommendation via quantile matrix factorization. , 2017, , .		8
42	Network Latency Estimation for Personal Devices: A Matrix Completion Approach. IEEE/ACM Transactions on Networking, 2017, 25, 724-737.	2.6	37
43	An Efficient Cloud Market Mechanism for Computing Jobs With Soft Deadlines. IEEE/ACM Transactions on Networking, 2017, 25, 793-805.	2.6	62
44	Energy efficient real-time task scheduling on CPU-GPU hybrid clusters. , 2017, , .		42
45	Optimal multicast in virtualized datacenter networks with software switches. , 2017, , .		4
46	Circular-shift linear network coding. , 2017, , .		5
47	Proactive VNF provisioning with multi-timescale cloud resources: Fusing online learning and online optimization. , 2017, , .		75
48	A Delaunay Triangulation Approach to Space Information Flow. , 2016, , .		1
49	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
50	An Online Auction for Deadline-Aware Dynamic Cloud Resource Provisioning. , 2016, , .		5
51	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
52	An efficient auction mechanism for service chains in the NFV market. , 2016, , .		54
53	On Base Field of Linear Network Coding. IEEE Transactions on Information Theory, 2016, 62, 7272-7282.	1.5	9
54	Quantum network coding for multi-unicast problem based on 2D and 3D cluster states. Science China Information Sciences, 2016, 59, 1.	2.7	25

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55	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
56	Software Defined Mobile Multicast. , 2015, , .		1
57	Fair rewarding in colocation data centers: Truthful mechanism for emergency demand response. , 2015, , .		15
58	A novel protocol for multiparty quantum key management. Quantum Information Processing, 2015, 14, 2959-2980.	1.0	39
59	A truthful incentive mechanism for emergency demand response in colocation data centers. , 2015, , .		76
60	Multicast Network Coding and Field Sizes. IEEE Transactions on Information Theory, 2015, 61, 6182-6191.	1.5	74
61	Constructing multicast networks where vector linear coding outperforms scalar linear coding. , 2015, , .		3
62	Socially-optimal online spectrum auctions for secondary wireless communication. , 2015, , .		15
63	Device-to-Device Load Balancing for Cellular Networks. , 2015, , .		11
64	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
65	Designing Truthful Spectrum Auctions for Multi-hop Secondary Networks. IEEE Transactions on Mobile Computing, 2015, 14, 316-327.	3.9	22
66	Online Auctions in IaaS Clouds. , 2015, , .		36
67	Network coding for quantum cooperative multicast. Quantum Information Processing, 2015, 14, 4297-4322.	1.0	39
68	An online procurement auction for power demand response in storage-assisted smart grids. , 2015, , .		36
69	When smart grid meets geo-distributed cloud: An auction approach to datacenter demand response. , 2015, , .		55
70	Hierarchical Virtual Machine Placement in Modular Data Centers. , 2015, , .		8
71	Online procurement auctions for resource pooling in client-assisted cloud storage systems. , 2015, , .		46
72	Demand Response in Smart Grids: A Randomized Auction Approach. IEEE Journal on Selected Areas in Communications, 2015, 33, 2540-2553.	9.7	33

#	ARTICLE	IF	CITATIONS
73	Online Electricity Cost Saving Algorithms for Co-Location Data Centers. IEEE Journal on Selected Areas in Communications, 2015, 33, 2906-2919.	9.7	9
74	Scaling Social Media Applications Into Geo-Distributed Clouds. IEEE/ACM Transactions on Networking, 2015, 23, 689-702.	2.6	86
75	Core-Selecting Auctions for Dynamically Allocating Heterogeneous VMs in Cloud Computing. , 2014, , .		23
76	Federated Private Clouds via Broker's Marketplace: A Stackelberg-Game Perspective. , 2014, , .		9
77	Core-Selecting Secondary Spectrum Auctions. IEEE Journal on Selected Areas in Communications, 2014, 32, 2268-2279.	9.7	12
78	A recursive partitioning algorithm for space information flow. , 2014, , .		6
79	Incentivize cooperative sensing in distributed cognitive radio networks with reputation-based pricing. , 2014, , .		10
80	An online auction framework for dynamic resource provisioning in cloud computing. , 2014, , .		72
81	Improving sustainability of BitTorrent darknets. Peer-to-Peer Networking and Applications, 2014, 7, 539-554.	2.6	0
82	Bounding the Advantage of Multicast Network Coding in General Network Models. IEEE Transactions on Communications, 2014, 62, 1023-1032.	4.9	0
83	A Geometric Perspective to Multiple-Unicast Network Coding. IEEE Transactions on Information Theory, 2014, 60, 2884-2895.	1.5	14
84	A Note on the Multiple-Unicast Network Coding Conjecture. IEEE Communications Letters, 2014, 18, 869-872.	2.5	7
85	Dynamic resource provisioning in cloud computing: A randomized auction approach. , 2014, , .		142
86	A matroid theory approach to multicast network coding. , 2014, , .		2
87	A Graph Minor Perspective to Multicast Network Coding. IEEE Transactions on Information Theory, 2014, 60, 5375-5386.	1.5	3
88	Profit-maximizing virtual machine trading in a federation of selfish clouds. , 2013, , .		53
89	Information multicast in (pseudo-)planar networks: Efficient network coding over small finite fields. , 2013, , .		5
90	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

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91	On Space Information Flow: Single multicast. , 2013, , .		10
92	A graph minor perspective to network coding: Connecting algebraic coding with network topologies. , 2013, , .		4
93	Designing Two-Dimensional Spectrum Auctions for Mobile Secondary Users. IEEE Journal on Selected Areas in Communications, 2013, 31, 604-613.	9.7	11
94	On uniform matroidal networks. , 2013, , .		1
95	Signal Alignment: Enabling Physical Layer Network Coding for MIMO Networking. IEEE Transactions on Wireless Communications, 2013, 12, 3012-3023.	6.1	18
96	ReDiSen: Reputation-based secure cooperative sensing in distributed cognitive radio networks. , 2013, , .		20
97	Core-selecting combinatorial auction design for secondary spectrum markets. , 2013, , .		16
98	Socially-optimal multi-hop secondary communication under arbitrary primary user mechanisms. , 2013, , .		4
99	Cost-minimizing dynamic migration of content distribution services into hybrid clouds. , 2012, , .		29
100	Min-cost multicast networks in Euclidean space. , 2012, , .		16
101	Space information flow: Multiple unicast. , 2012, , .		23
102	Throughput and Energy Efficiency in Wireless Ad Hoc Networks With Gaussian Channels. IEEE/ACM Transactions on Networking, 2012, 20, 15-28.	2.6	8
103	On benefits of network coding in bidirected networks and hyper-networks. , 2012, , .		4
104	Truthful spectrum auction design for secondary networks. , 2012, , .		12
105	On Achieving Group-Strategyproof Multicast. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 913-923.	4.0	3
106	Exploring the Sustainability of Credit-incentivized Peer-to-Peer Content Distribution. , 2012, , .		2
107	Stochastic optimal multirate multicast in socially selfish wireless networks. , 2012, , .		12
108	Barrier Counting in Mixed Wireless Sensor Networks. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
109	A geometric framework for investigating the multiple unicast network coding conjecture. , 2012, , .		11
110	Dynamic scaling of VoD services into hybrid clouds with cost minimization and QoS guarantee. , 2012, , .		8
111	Tsunami: massively parallel homomorphic hashing on many-core GPUs. Concurrency Computation Practice and Experience, 2012, 24, 2028-2039.	1.4	3
112	Bounding the Coding Advantage of Combination Network Coding in Undirected Networks. IEEE Transactions on Information Theory, 2012, 58, 570-584.	1.5	38
113	Utility-Maximizing Data Dissemination in Socially Selfish Cognitive Radio Networks. , 2011, , .		13
114	Physical Layer Network Coding with Signal Alignment for MIMO Wireless Networks. , 2011, , .		1
115	Capacity bounds for energy efficient data streaming in homogeneous wireless ad hoc networks. , 2011, , .		0
116	Group Strategyproof Multicast in Wireless Networks. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 708-715.	4.0	5
117	A prior-free revenue maximizing auction for secondary spectrum access. , 2011, , .		27
118	Improving Sustainability of Private P2P Communities. , 2011, , .		14
119	Feasible Capacity of Distributed Beamforming in Multi-Hop Wireless Sensor Networks. , 2011, , .		0
120	Strategyproof Wireless Spectrum Auctions with Interference. , 2010, , .		9
121	Throughput and Energy Efficiency in Wireless Ad Hoc Networks with Gaussian Channels. , 2010, , .		2
122	Dynamic file-selection policies for bundling in BitTorrent-like systems. , 2010, , .		11
123	On the Performance of Network Coding for Multicast Data Delivery in Large Scale Mobile Ad Hoc Networks. , 2010, , .		6
124	Optimal multicast in multi-channel multi-radio wireless networks. , 2009, , .		14
125	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
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	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
128	Stochastic Multicast with Network Coding. , 2009, , .		2
129	Dynamic Bandwidth Auctions in Multioverlay P2P Streaming with Network Coding. IEEE Transactions on Parallel and Distributed Systems, 2008, 19, 806-820.	4.0	56
130	The Cost Advantage of Network Coding in Uniform Combinatorial Networks. , 2008, , .		2
131	Optimization Models for Streaming in Multihop Wireless Networks. , 2007, , .		9
132	Improving Throughput in Multihop Wireless Networks. IEEE Transactions on Vehicular Technology, 2006, 55, 762-773.	3.9	15