

# Lingjie Duan

## List of Publications by Year in descending order

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Version: 2024-02-01

111  
papers

3,653  
citations

159585

30  
h-index

175258

52  
g-index

112  
all docs

112  
docs citations

112  
times ranked

2931  
citing authors

#	ARTICLE	IF	CITATIONS
1	Incentive mechanisms for smartphone collaboration in data acquisition and distributed computing. , 2012, , .		199
2	Age of information: Design and analysis of optimal scheduling algorithms. , 2017, , .		165
3	Proactive Eavesdropping Via Jamming for Rate Maximization Over Rayleigh Fading Channels. IEEE Wireless Communications Letters, 2016, 5, 80-83.	5.0	151
4	Adaptive Deployment for UAV-Aided Communication Networks. IEEE Transactions on Wireless Communications, 2019, 18, 4531-4543.	9.2	144
5	Fast Deployment of UAV Networks for Optimal Wireless Coverage. IEEE Transactions on Mobile Computing, 2019, 18, 588-601.	5.8	136
6	Cooperative Double-IRS Aided Communication: Beamforming Design and Power Scaling. IEEE Wireless Communications Letters, 2020, 9, 1206-1210.	5.0	127
7	Green 5G Heterogeneous Networks Through Dynamic Small-Cell Operation. IEEE Journal on Selected Areas in Communications, 2016, 34, 1103-1115.	14.0	126
8	Proactive Eavesdropping via Cognitive Jamming in Fading Channels. IEEE Transactions on Wireless Communications, 2017, 16, 2790-2806.	9.2	123
9	Investment and Pricing with Spectrum Uncertainty: A Cognitive Operator's Perspective. IEEE Transactions on Mobile Computing, 2011, 10, 1590-1604.	5.8	118
10	Scheduling Algorithms for Minimizing Age of Information in Wireless Broadcast Networks with Random Arrivals. IEEE Transactions on Mobile Computing, 2020, 19, 2903-2915.	5.8	114
11	Economics of Femtocell Service Provision. IEEE Transactions on Mobile Computing, 2013, 12, 2261-2273.	5.8	101
12	Motivating Smartphone Collaboration in Data Acquisition and Distributed Computing. IEEE Transactions on Mobile Computing, 2014, 13, 2320-2333.	5.8	94
13	Duopoly Competition in Dynamic Spectrum Leasing and Pricing. IEEE Transactions on Mobile Computing, 2012, 11, 1706-1719.	5.8	93
14	Adaptively Directional Wireless Power Transfer for Large-Scale Sensor Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 1785-1800.	14.0	83
15	Contract-based cooperative spectrum sharing. , 2011, , .		82
16	When Social Network Effect Meets Congestion Effect in Wireless Networks: Data Usage Equilibrium and Optimal Pricing. IEEE Journal on Selected Areas in Communications, 2017, 35, 449-462.	14.0	77
17	Joint Energy and Spectrum Cooperation for Cellular Communication Systems. IEEE Transactions on Communications, 2014, 62, 3678-3691.	7.8	73
18	Wireless Power Transfer and Data Collection in Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 2686-2697.	6.3	71

#	ARTICLE	IF	CITATIONS
19	Multiple Access MmWave Design for UAV-Aided 5G Communications. IEEE Wireless Communications, 2019, 26, 64-71.	9.0	67
20	WAIPO: A Fusion-Based Collaborative Indoor Localization System on Smartphones. IEEE/ACM Transactions on Networking, 2017, 25, 2267-2280.	3.8	66
21	Cognitive Mobile Virtual Network Operator: Investment and Pricing with Supply Uncertainty. , 2010, , .		58
22	Pricing-Driven Service Caching and Task Offloading in Mobile Edge Computing. IEEE Transactions on Wireless Communications, 2021, 20, 4495-4512.	9.2	58
23	Spatial Throughput Maximization of Wireless Powered Communication Networks. IEEE Journal on Selected Areas in Communications, 2015, , 1-1.	14.0	57
24	Scalable Mobile Crowdsensing via Peer-to-Peer Data Sharing. IEEE Transactions on Mobile Computing, 2018, 17, 898-912.	5.8	57
25	Competition with Dynamic Spectrum Leasing. , 2010, , .		50
26	Cooperative Local Caching under Heterogeneous File Preferences. IEEE Transactions on Communications, 2016, , 1-1.	7.8	49
27	Jamming-Assisted Eavesdropping Over Parallel Fading Channels. IEEE Transactions on Information Forensics and Security, 2019, 14, 2486-2499.	6.9	47
28	Energy Group Buying With Loading Sharing for Green Cellular Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 786-799.	14.0	45
29	Dynamic Base Station Operation in Large-Scale Green Cellular Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 3127-3141.	14.0	44
30	Double-IRS Aided MIMO Communication Under LoS Channels: Capacity Maximization and Scaling. IEEE Transactions on Communications, 2022, 70, 2820-2837.	7.8	42
31	Energy-Saving Deployment Algorithms of UAV Swarm for Sustainable Wireless Coverage. IEEE Transactions on Vehicular Technology, 2020, 69, 10320-10335.	6.3	40
32	Multiantenna Wireless Powered Communication With Cochannel Energy and Information Transfer. IEEE Communications Letters, 2015, 19, 2266-2269.	4.1	36
33	Optimal Pricing and Load Sharing for Energy Saving With Cooperative Communications. IEEE Transactions on Wireless Communications, 2016, 15, 951-964.	9.2	35
34	Optimal Scheduling and Beamforming in Relay Networks With Energy Harvesting Constraints. IEEE Transactions on Wireless Communications, 2016, 15, 1226-1238.	9.2	31
35	Jamming-Assisted Proactive Eavesdropping Over Two Suspicious Communication Links. IEEE Transactions on Wireless Communications, 2020, 19, 4817-4830.	9.2	31
36	Dynamic Routing for Social Information Sharing. IEEE Journal on Selected Areas in Communications, 2017, 35, 571-585.	14.0	28

#	ARTICLE	IF	CITATIONS
37	UAV-Aided Information and Energy Transmissions for Cognitive and Sustainable 5G Networks. IEEE Transactions on Wireless Communications, 2021, 20, 1668-1683.	9.2	27
38	Secure cooperative spectrum sensing and access against intelligent malicious behaviors. , 2014, , .		25
39	Dynamic Pricing and Capacity Allocation of UAV-provided Mobile Services. , 2019, , .		25
40	Distributed Power Control With Robust Protection for PUs in Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2015, 14, 3247-3258.	9.2	24
41	Pricing for Local and Global Wi-Fi Markets. IEEE Transactions on Mobile Computing, 2015, 14, 1056-1070.	5.8	24
42	Chase or Wait: Dynamic UAV Deployment to Learn and Catch Time-Varying User Activities. IEEE Transactions on Mobile Computing, 2021, , 1-1.	5.8	23
43	User-Initiated Data Plan Trading via a Personal Hotspot Market. IEEE Transactions on Wireless Communications, 2016, 15, 7885-7898.	9.2	21
44	Optimization of Emergency UAV Deployment for Providing Wireless Coverage. , 2017, , .		21
45	Data-Centric Mobile Crowdsensing. IEEE Transactions on Mobile Computing, 2018, 17, 1275-1288.	5.8	21
46	Sum-Rate Maximization Methods for Wirelessly Powered Communication Networks in Interference Channels. IEEE Transactions on Wireless Communications, 2018, 17, 6464-6474.	9.2	21
47	Balancing Income and User Utility in Spectrum Allocation. IEEE Transactions on Mobile Computing, 2015, 14, 2460-2473.	5.8	20
48	Economic Analysis of 4G Upgrade Timing. IEEE Transactions on Mobile Computing, 2015, 14, 975-989.	5.8	20
49	Economic analysis of 4G network upgrade. , 2013, , .		19
50	Transmit Optimization for Symbol-Level Spoofing. IEEE Transactions on Wireless Communications, 2018, 17, 41-55.	9.2	19
51	Towards Reliable UAV Swarm Communication in D2D-Enhanced Cellular Networks. IEEE Transactions on Wireless Communications, 2021, 20, 1567-1581.	9.2	19
52	Fundamental Rate Limits of Physical Layer Spoofing. IEEE Wireless Communications Letters, 2017, 6, 154-157.	5.0	18
53	Proactive Eavesdropping via Jamming over HARQ-Based Communications. , 2017, , .		18
54	Economic Analysis of Unmanned Aerial Vehicle (UAV) Provided Mobile Services. IEEE Transactions on Mobile Computing, 2021, 20, 1804-1816.	5.8	18

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55	Dynamic Pricing for Controlling Age of Information. , 2019, , .		17
56	Crowdcaching: Incentivizing D2D-Enabled Caching via Coalitional Game for IoT. IEEE Internet of Things Journal, 2020, 7, 5599-5612.	8.7	17
57	Two-facility Location Games with Minimum Distance Requirement. Journal of Artificial Intelligence Research, 0, 70, 719-756.	7.0	17
58	Cooperative local caching and file sharing under heterogeneous file preferences. , 2016, , .		16
59	Proactive eavesdropping via cognitive jamming in fading channels. , 2016, , .		14
60	Optimal Pricing and Admission Control for Heterogeneous Secondary Users. IEEE Transactions on Wireless Communications, 2016, 15, 5218-5230.	9.2	14
61	Regulating Competition in Age of Information Under Network Externalities. IEEE Journal on Selected Areas in Communications, 2020, 38, 697-710.	14.0	13
62	Economics of Peer-to-Peer Mobile Crowdsensing. , 2015, , .		12
63	Traffic-Aware Adaptive Deployment for UAV-Aided Communication Networks. , 2018, , .		12
64	Optimal Pricing of User-Initiated Data-Plan Sharing in a Roaming Market. IEEE Transactions on Wireless Communications, 2018, 17, 5929-5944.	9.2	12
65	UAV placement games for optimal wireless service provision. , 2018, , .		12
66	Capacity Allocation and Pricing Strategies for New Wireless Services. Production and Operations Management, 2016, 25, 866-882.	3.8	11
67	Recommending Paths: Follow or Not Follow?. , 2019, , .		11
68	Mobile Social Services with Network Externality: From Separate Pricing to Bundled Pricing. IEEE Transactions on Network Science and Engineering, 2019, 6, 379-390.	6.4	10
69	Exploiting Data Reuse in Mobile Crowdsensing. , 2016, , .		9
70	On the competition of CDN companies: Impact of new telco-CDNs' federation. , 2016, , .		9
71	Multi-UAV Cooperative Trajectory for Servicing Dynamic Demands and Charging Battery. IEEE Transactions on Mobile Computing, 2021, , 1-1.	5.8	9
72	To Motivate Social Grouping in Wireless Networks. IEEE Transactions on Wireless Communications, 2017, 16, 4880-4893.	9.2	8

#	ARTICLE	IF	CITATIONS
73	Proactive Eavesdropping of Two Suspicious Communication Links via Jamming. , 2019, , .		8
74	Incentive Mechanism Design for Distributed Coded Machine Learning. , 2021, , .		8
75	On Spatial Capacity of Wireless Ad Hoc Networks with Threshold Based Scheduling. IEEE Transactions on Wireless Communications, 2014, 13, 6915-6927.	9.2	7
76	Wireless surveillance of two-hop communications : (Invited paper). , 2017, , .		7
77	Going beyond Secrecy Rate via Information Jamming. , 2018, , .		7
78	Dynamic contract to regulate energy management in microgrids. , 2013, , .		6
79	Transmit Optimization for Symbol-Level Spoofing with BPSK Signaling. , 2016, , .		6
80	SWPT: A Joint-Scheduling Model for Wireless Powered Sensor Networks. , 2017, , .		6
81	Strategic Learning Approach for Deploying UAV-Provided Wireless Services. IEEE Transactions on Mobile Computing, 2021, 20, 1230-1241.	5.8	6
82	Distributed double auctions for large-scale device-to-device resource trading. , 2020, , .		6
83	Balance of revenue and social welfare in FCC's spectrum allocation. , 2013, , .		5
84	Joint spectrum pricing and admission control for heterogeneous secondary users. , 2014, , .		5
85	Harnessing Self-Interference in Full-Duplex Relaying: An Analog Filter-and-Forward Approach. , 2016, , .		5
86	Sustainable Green Networking and Computing in 5G Systems. IEEE Wireless Communications, 2017, 24, 12-13.	9.0	4
87	Optimal Patrolling Trajectory Design for Multi-UAV Wireless Servicing and Battery Swapping. , 2019, , .		4
88	Beyond Secrecy Rate in MISO Wiretap Channels: An Information Jamming Approach. IEEE Transactions on Communications, 2020, 68, 3057-3067.	7.8	4
89	Operator-as-a-Consumer: A Novel Energy Storage Sharing Approach Under Demand Charge. IEEE Transactions on Cybernetics, 2023, 53, 941-953.	9.5	4
90	Dynamic Pricing and Mean Field Analysis for Controlling Age of Information. IEEE/ACM Transactions on Networking, 2022, 30, 2588-2600.	3.8	4

#	ARTICLE	IF	CITATIONS
91	Optimal energy and spectrum sharing for cooperative cellular systems. , 2014, , .		3
92	Economic Analysis of Rollover and Shared Data Plans. IEEE Transactions on Mobile Computing, 2020, 19, 2088-2100.	5.8	3
93	Optimal Pricing for Peer-to-Peer Sharing With Network Externalities. IEEE/ACM Transactions on Networking, 2020, , 1-14.	3.8	3
94	Cooperative Path Planning of a UAV Swarm to Meet Temporal-Spatial User Demands. , 2020, , .		3
95	Financial Analysis of Network Upgrade. IEEE Transactions on Vehicular Technology, 2018, 67, 5496-5499.	6.3	2
96	Learning Large Electrical Loads via Flexible Contracts With Commitment. IEEE Transactions on Network Science and Engineering, 2021, 8, 1925-1940.	6.4	2
97	Power-saving heterogeneous networks through optimal small-cell scheduling. , 2014, , .		1
98	Adaptively Directional Wireless Power Transfer for Large Sensor Networks. , 2015, , .		1
99	Economics and Optimizations in Wireless Communication Networks. Mobile Information Systems, 2016, 2016, 1-2.	0.6	1
100	Pricing for Opportunistic Data Sharing via Personal Hotspot. , 2017, , .		1
101	Economic Controls for Smart Water Distribution Networks Undergoing Supply Failures. IEEE Transactions on Network Science and Engineering, 2021, 8, 555-574.	6.4	1
102	Market Entry. , 2018, , 1-6.		1
103	Average-Case Analysis of Greedy Matching for D2D Resource Sharing. , 2021, , .		1
104	Personalized Pricing through User Profiling in Social Networks. , 2021, , .		1
105	Gaining Location Privacy from Service Flexibility: A Bayesian Game Theoretic Approach. , 2021, , .		1
106	To Help or Disturb: Introduction of Crowdsourced WiFi to 5G Networks. IEEE Transactions on Mobile Computing, 2022, , 1-1.	5.8	1
107	Economics of Peer-to-Peer Mobile Crowdsensing. , 2014, , .		0
108	Adaptively Directional Wireless Power Transfer for Large Sensor Networks. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
109	Introduction to the Special Section From IEEE DySPAN 2018. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 608-610.	7.9	0
110	Market Entry. , 2020, , 766-771.		0
111	Protecting Location Privacy by Multiquery: A Dynamic Bayesian Game Theoretic Approach. IEEE Transactions on Information Forensics and Security, 2022, 17, 2569-2584.	6.9	0