

Lingyang Song

List of Publications by Year in descending order

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328
papers

12,327
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docs citations

333
times ranked

7515
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficiency Resource Allocation for Device-to-Device Underlay Communication Systems: A Reverse Iterative Combinatorial Auction Based Approach. IEEE Journal on Selected Areas in Communications, 2013, 31, 348-358.	14.0	405
2	Reconfigurable Intelligent Surfaces for Wireless Communications: Principles, Challenges, and Opportunities. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 990-1002.	7.9	389
3	Joint Trajectory and Power Optimization for UAV Relay Networks. IEEE Communications Letters, 2018, 22, 161-164.	4.1	367
4	Sub-Channel Assignment, Power Allocation, and User Scheduling for Non-Orthogonal Multiple Access Networks. IEEE Transactions on Wireless Communications, 2016, 15, 7686-7698.	9.2	349
5	Hybrid Beamforming for Reconfigurable Intelligent Surface based Multi-User Communications: Achievable Rates With Limited Discrete Phase Shifts. IEEE Journal on Selected Areas in Communications, 2020, 38, 1809-1822.	14.0	318
6	Cellular UAV-to-X Communications: Design and Optimization for Multi-UAV Networks. IEEE Transactions on Wireless Communications, 2019, 18, 1346-1359.	9.2	281
7	Joint Relay and Jammer Selection for Secure Two-Way Relay Networks. IEEE Transactions on Information Forensics and Security, 2012, 7, 310-320.	6.9	254
8	Reconfigurable Intelligent Surfaces Assisted Communications With Limited Phase Shifts: How Many Phase Shifts Are Enough?. IEEE Transactions on Vehicular Technology, 2020, 69, 4498-4502.	6.3	232
9	Contract-Based Incentive Mechanisms for Device-to-Device Communications in Cellular Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 2144-2155.	14.0	219
10	Relay Selection for Two-Way Relaying With Amplify-and-Forward Protocols. IEEE Transactions on Vehicular Technology, 2011, 60, 1954-1959.	6.3	185
11	Incentive Mechanism for Demand Side Management in Smart Grid Using Auction. IEEE Transactions on Smart Grid, 2014, 5, 1379-1388.	9.0	177
12	Ultra-Dense LEO: Integration of Satellite Access Networks into 5G and Beyond. IEEE Wireless Communications, 2019, 26, 62-69.	9.0	174
13	Ultra-Dense LEO: Integrating Terrestrial-Satellite Networks Into 5G and Beyond for Data Offloading. IEEE Transactions on Wireless Communications, 2019, 18, 47-62.	9.2	174
14	User Pairing for Downlink Non-Orthogonal Multiple Access Networks Using Matching Algorithm. IEEE Transactions on Communications, 2017, 65, 5319-5332.	7.8	168
15	Energy-Efficient Resource Allocation for Device-to-Device Underlay Communication. IEEE Transactions on Wireless Communications, 2015, 14, 2082-2092.	9.2	164
16	Bad Data Injection Attack and Defense in Electricity Market Using Game Theory Study. IEEE Transactions on Smart Grid, 2013, 4, 160-169.	9.0	160
17	Interference-aware resource allocation for device-to-device communications as an underlay using sequential second price auction. , 2012, , .		144
18	Reconfigurable Intelligent Surface (RIS) Assisted Wireless Coverage Extension: RIS Orientation and Location Optimization. IEEE Communications Letters, 2021, 25, 269-273.	4.1	144

#	ARTICLE	IF	CITATIONS
19	Joint Radio and Computational Resource Allocation in IoT Fog Computing. IEEE Transactions on Vehicular Technology, 2018, 67, 7475-7484.	6.3	132
20	D2D-U: Device-to-Device Communications in Unlicensed Bands for 5G System. IEEE Transactions on Wireless Communications, 2017, 16, 3507-3519.	9.2	131
21	Non-Orthogonal Multiple Access for High-Reliable and Low-Latency V2X Communications in 5G Systems. IEEE Journal on Selected Areas in Communications, 2017, 35, 2383-2397.	14.0	127
22	Matching Theory: Applications in wireless communications. IEEE Signal Processing Magazine, 2016, 33, 103-122.	5.6	126
23	Real-Time Profiling of Fine-Grained Air Quality Index Distribution Using UAV Sensing. IEEE Internet of Things Journal, 2018, 5, 186-198.	8.7	125
24	Joint Task Assignment, Transmission, and Computing Resource Allocation in Multilayer Mobile Edge Computing Systems. IEEE Internet of Things Journal, 2019, 6, 2872-2884.	8.7	118
25	Reconfigurable Intelligent Surface Based RF Sensing: Design, Optimization, and Implementation. IEEE Journal on Selected Areas in Communications, 2020, 38, 2700-2716.	14.0	114
26	Cellular V2X Communications in Unlicensed Spectrum: Harmonious Coexistence With VANET in 5G Systems. IEEE Transactions on Wireless Communications, 2018, 17, 5212-5224.	9.2	111
27	Practical Hybrid Beamforming With Finite-Resolution Phase Shifters for Reconfigurable Intelligent Surface Based Multi-User Communications. IEEE Transactions on Vehicular Technology, 2020, 69, 4565-4570.	6.3	110
28	Resource allocation using a reverse iterative combinatorial auction for device-to-device underlay cellular networks. , 2012, , .		103
29	Cooperative Internet of UAVs: Distributed Trajectory Design by Multi-Agent Deep Reinforcement Learning. IEEE Transactions on Communications, 2020, 68, 6807-6821.	7.8	99
30	Coalitional Games with Overlapping Coalitions for Interference Management in Small Cell Networks. IEEE Transactions on Wireless Communications, 2014, 13, 2659-2669.	9.2	96
31	DRL360: 360-degree Video Streaming with Deep Reinforcement Learning. , 2019, , .		94
32	Beyond D2D: Full Dimension UAV-to-Everything Communications in 6G. IEEE Transactions on Vehicular Technology, 2020, 69, 6592-6602.	6.3	93
33	Dynamic Popular Content Distribution in Vehicular Networks using Coalition Formation Games. IEEE Journal on Selected Areas in Communications, 2013, 31, 538-547.	14.0	92
34	Hybrid Precoding Design for Reconfigurable Intelligent Surface Aided mmWave Communication Systems. IEEE Wireless Communications Letters, 2020, 9, 1041-1045.	5.0	92
35	Differential Modulation for Bidirectional Relaying With Analog Network Coding. IEEE Transactions on Signal Processing, 2010, 58, 3933-3938.	5.3	91
36	Beyond Intelligent Reflecting Surfaces: Reflective-Transmissive Metasurface Aided Communications for Full-Dimensional Coverage Extension. IEEE Transactions on Vehicular Technology, 2020, 69, 13905-13909.	6.3	87

#	ARTICLE	IF	CITATIONS
37	Full-Duplex MAC Protocol Design and Analysis. IEEE Communications Letters, 2015, 19, 1185-1188.	4.1	84
38	Platoon Cooperation in Cellular V2X Networks for 5G and Beyond. IEEE Transactions on Wireless Communications, 2019, 18, 3919-3932.	9.2	82
39	UAV Aided Aerial-Ground IoT for Air Quality Sensing in Smart City: Architecture, Technologies, and Implementation. IEEE Network, 2019, 33, 14-22.	6.9	81
40	MetaLocalization: Reconfigurable Intelligent Surface Aided Multi-User Wireless Indoor Localization. IEEE Transactions on Wireless Communications, 2021, 20, 7743-7757.	9.2	81
41	Efficient Full-Duplex Relaying With Joint Antenna-Relay Selection and Self-Interference Suppression. IEEE Transactions on Wireless Communications, 2015, 14, 3991-4005.	9.2	78
42	Age of Information in a Cellular Internet of UAVs: Sensing and Communication Trade-Off Design. IEEE Transactions on Wireless Communications, 2020, 19, 6578-6592.	9.2	78
43	Reinforcement Learning for Decentralized Trajectory Design in Cellular UAV Networks With Sense-and-Send Protocol. IEEE Internet of Things Journal, 2019, 6, 6177-6189.	8.7	77
44	Beyond Cell-Free MIMO: Energy Efficient Reconfigurable Intelligent Surface Aided Cell-Free MIMO Communications. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 412-426.	7.9	77
45	A Multi-Leader Multi-Follower Stackelberg Game for Resource Management in LTE Unlicensed. IEEE Transactions on Wireless Communications, 2017, 16, 348-361.	9.2	75
46	Reconfigurable Intelligent Surface Assisted Device-to-Device Communications. IEEE Transactions on Wireless Communications, 2021, 20, 2792-2804.	9.2	75
47	Intelligent Omni-Surfaces: Ubiquitous Wireless Transmission by Reflective-Refractive Metasurfaces. IEEE Transactions on Wireless Communications, 2022, 21, 219-233.	9.2	71
48	Joint scheduling and resource allocation for device-to-device underlay communication. , 2013, , .		70
49	Distributed resource allocation for device-to-device communications underlying cellular networks. , 2013, , .		70
50	Reconfigurable Intelligent Surfaces in 6G: Reflective, Transmissive, or Both?. IEEE Communications Letters, 2021, 25, 2063-2067.	4.1	70
51	HetMEC: Latency-Optimal Task Assignment and Resource Allocation for Heterogeneous Multi-Layer Mobile Edge Computing. IEEE Transactions on Wireless Communications, 2019, 18, 4942-4956.	9.2	69
52	Social Data Offloading in D2D-Enhanced Cellular Networks by Network Formation Games. IEEE Transactions on Wireless Communications, 2015, 14, 7004-7015.	9.2	68
53	Sub-Channel and Power Allocation for Non-Orthogonal Multiple Access Relay Networks With Amplify-and-Forward Protocol. IEEE Transactions on Wireless Communications, 2017, 16, 2249-2261.	9.2	68
54	Performance Analysis of Hybrid Relay Selection in Cooperative Wireless Systems. IEEE Transactions on Communications, 2012, 60, 779-788.	7.8	67

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55	Intelligent Omni-Surfaces for Full-Dimensional Wireless Communications: Principles, Technology, and Implementation. IEEE Communications Magazine, 2022, 60, 39-45.	6.1	67
56	Reinforcement Learning for a Cellular Internet of UAVs: Protocol Design, Trajectory Control, and Resource Management. IEEE Wireless Communications, 2020, 27, 116-123.	9.0	66
57	Radio Resource Allocation for Downlink Non-Orthogonal Multiple Access (NOMA) Networks Using Matching Theory. , 2015, , .		65
58	Radio Resource Allocation for Device-to-Device Underlay Communication Using Hypergraph Theory. IEEE Transactions on Wireless Communications, 2016, , 1-1.	9.2	63
59	Incentive Mechanism for Mobile Crowdsourcing Using an Optimized Tournament Model. IEEE Journal on Selected Areas in Communications, 2017, 35, 880-892.	14.0	62
60	Radio resource allocation for physical-layer security in D2D underlay communications. , 2014, , .		60
61	Physical Layer Security for Two Way Relay Communications with Friendly Jammers. , 2010, , .		58
62	Energy-efficient radio resource and power allocation for device-to-device communication underlying cellular networks. , 2012, , .		58
63	Resource allocation in full-duplex communications for future wireless networks. IEEE Wireless Communications, 2015, 22, 88-96.	9.0	58
64	Cellular UAV-to-Device Communications: Trajectory Design and Mode Selection by Multi-Agent Deep Reinforcement Learning. IEEE Transactions on Communications, 2020, 68, 4175-4189.	7.8	58
65	A Stackelberg Game Approach to Proactive Caching in Large-Scale Mobile Edge Networks. IEEE Transactions on Wireless Communications, 2018, 17, 5198-5211.	9.2	57
66	Towards Ubiquitous Positioning by Leveraging Reconfigurable Intelligent Surface. IEEE Communications Letters, 2021, 25, 284-288.	4.1	57
67	Joint User Pairing, Subchannel, and Power Allocation in Full-Duplex Multi-User OFDMA Networks. IEEE Transactions on Wireless Communications, 2016, 15, 8260-8272.	9.2	56
68	Ultra-Dense LEO Satellite Constellations: How Many LEO Satellites Do We Need?. IEEE Transactions on Wireless Communications, 2021, 20, 4843-4857.	9.2	56
69	UAV Offloading: Spectrum Trading Contract Design for UAV-Assisted Cellular Networks. IEEE Transactions on Wireless Communications, 2018, 17, 6093-6107.	9.2	54
70	Cooperation Techniques for a Cellular Internet of Unmanned Aerial Vehicles. IEEE Wireless Communications, 2019, 26, 167-173.	9.0	54
71	Roadside Unit Caching: Auction-Based Storage Allocation for Multiple Content Providers. IEEE Transactions on Wireless Communications, 2017, 16, 6321-6334.	9.2	53
72	Load Balancing for 5G Ultra-Dense Networks Using Device-to-Device Communications. IEEE Transactions on Wireless Communications, 2018, 17, 4039-4050.	9.2	52

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73	Joint Trajectory and Power Optimization for UAV Sensing Over Cellular Networks. IEEE Communications Letters, 2018, 22, 2382-2385.	4.1	52
74	Antenna Selection for MIMO Nonorthogonal Multiple Access Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 3158-3171.	6.3	51
75	A novel caching mechanism for Internet of Things (IoT) sensing service with energy harvesting. , 2016, , .		50
76	HetMEC: Heterogeneous Multi-Layer Mobile Edge Computing in the 6 G Era. IEEE Transactions on Vehicular Technology, 2020, 69, 4388-4400.	6.3	50
77	Ultra-Dense LEO Satellite Offloading for Terrestrial Networks: How Much to Pay the Satellite Operator?. IEEE Transactions on Wireless Communications, 2020, 19, 6240-6254.	9.2	49
78	Dynamic Path To Stability in LTE-Unclicensed With User Mobility: A Matching Framework. IEEE Transactions on Wireless Communications, 2017, 16, 4547-4561.	9.2	48
79	Unmanned Aerial Vehicle Applications over Cellular Networks for 5G and Beyond. Wireless Networks, 2020, , .	0.5	47
80	Full-Duplex Amplify-and-Forward Relaying: Power and Location Optimization. IEEE Transactions on Vehicular Technology, 2017, 66, 8458-8468.	6.3	46
81	Transmit-Receive Antenna Pair Selection in Full Duplex Systems. IEEE Wireless Communications Letters, 2014, 3, 34-37.	5.0	43
82	Game theoretic approaches for wireless proactive caching. , 2016, 54, 37-43.		42
83	UAV Relaying: Power Allocation and Trajectory Optimization Using Decode-and-Forward Protocol. , 2018, , .		42
84	Cooperative Collision Avoidance for Overtaking Maneuvers in Cellular V2X-Based Autonomous Driving. IEEE Transactions on Vehicular Technology, 2019, 68, 4434-4446.	6.3	42
85	Improving Quality of Experience by Adaptive Video Streaming with Super-Resolution. , 2020, , .		42
86	Distributed Cooperative Sensing in Cognitive Radio Networks: An Overlapping Coalition Formation Approach. IEEE Transactions on Communications, 2014, 62, 3144-3160.	7.8	41
87	Non-Cash Auction for Spectrum Trading in Cognitive Radio Networks: Contract Theoretical Model With Joint Adverse Selection and Moral Hazard. IEEE Journal on Selected Areas in Communications, 2017, 35, 643-653.	14.0	41
88	Non-Cooperative Feedback-Rate Control Game for Channel State Information in Wireless Networks. IEEE Journal on Selected Areas in Communications, 2012, 30, 188-197.	14.0	40
89	A Hierarchical Game Approach for Multi-Operator Spectrum Sharing in LTE Unclicensed. , 2015, , .		40
90	Tens of Gigabits Wireless Communications Over E-Band LoS MIMO Channels With Uniform Linear Antenna Arrays. IEEE Transactions on Wireless Communications, 2014, 13, 3791-3805.	9.2	39

#	ARTICLE	IF	CITATIONS
91	Radio resource allocation for uplink sparse code multiple access (SCMA) networks using matching game. , 2016, , .		38
92	Optimal Power Dispatching for Local Area Packetized Power Network. IEEE Transactions on Smart Grid, 2018, 9, 4765-4776.	9.0	37
93	Cellular Cooperative Unmanned Aerial Vehicle Networks With Sense-and-Send Protocol. IEEE Internet of Things Journal, 2019, 6, 1754-1767.	8.7	37
94	UAV-to-Device Underlay Communications: Age of Information Minimization by Multi-Agent Deep Reinforcement Learning. IEEE Transactions on Communications, 2021, 69, 4461-4475.	7.8	37
95	Exploiting Student-Project Allocation Matching for Spectrum Sharing in LTE-Unlicensed. , 2015, , .		36
96	LTE-Unlicensed Coexistence Mechanism: A Matching Game Framework. IEEE Wireless Communications, 2016, 23, 54-60.	9.0	36
97	Reconfigurable Intelligent Surface (RIS)-Enhanced Two-Way OFDM Communications. IEEE Transactions on Vehicular Technology, 2020, 69, 16270-16275.	6.3	36
98	AI Empowered RIS-Assisted NOMA Networks: Deep Learning or Reinforcement Learning?. IEEE Journal on Selected Areas in Communications, 2022, 40, 182-196.	14.0	36
99	Radio resource allocation for full-duplex OFDMA networks using matching theory. , 2014, , .		35
100	Efficient resource allocation for mobile social networks in D2D communication underlying cellular networks. , 2014, , .		33
101	Cross-Layer Protocol Design for CSMA/CD in Full-Duplex WiFi Networks. IEEE Communications Letters, 2016, 20, 792-795.	4.1	33
102	ImgSensingNet: UAV Vision Guided Aerial-Ground Air Quality Sensing System. , 2019, , .		33
103	Reconfigurable Intelligent Surface Aided Cell-Free MIMO Communications. IEEE Wireless Communications Letters, 2021, 10, 775-779.	5.0	33
104	Toward Ubiquitous Sensing and Localization With Reconfigurable Intelligent Surfaces. Proceedings of the IEEE, 2022, 110, 1401-1422.	21.3	33
105	Differential coding for non-orthogonal space-time block codes with non-unitary constellations over arbitrarily correlated rayleigh channels. IEEE Transactions on Wireless Communications, 2009, 8, 3985-3995.	9.2	32
106	Caching as a Service: Small-Cell Caching Mechanism Design for Service Providers. IEEE Transactions on Wireless Communications, 2016, 15, 6992-7004.	9.2	31
107	Reconfigurable Holographic Surface: Holographic Beamforming for Metasurface-Aided Wireless Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 6255-6259.	6.3	31
108	Effect of stealthy bad data injection on network congestion in market based power system. , 2012, , .		30

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109	Truthful Mechanisms for Secure Communication in Wireless Cooperative System. IEEE Transactions on Wireless Communications, 2013, 12, 4236-4245.	9.2	30
110	Reconfigurable Holographic Surfaces for Future Wireless Communications. IEEE Wireless Communications, 2021, 28, 126-131.	9.0	30
111	Graph-based resource allocation for D2D communications underlying cellular networks. , 2013, , .		29
112	How Much Computing Capability Is Enough to Run a Cloud Radio Access Network?. IEEE Communications Letters, 2017, 21, 104-107.	4.1	29
113	IoT-U: Cellular Internet-of-Things Networks Over Unlicensed Spectrum. IEEE Transactions on Wireless Communications, 2019, 18, 2477-2492.	9.2	29
114	Trajectory Optimization and Resource Allocation for OFDMA UAV Relay Networks. IEEE Transactions on Wireless Communications, 2021, 20, 6634-6647.	9.2	29
115	Distributed Multi-Cloud Multi-Access Edge Computing by Multi-Agent Reinforcement Learning. IEEE Transactions on Wireless Communications, 2021, 20, 2565-2578.	9.2	29
116	Reconfigurable Intelligent Surface Assisted Multi-User Communications: How Many Reflective Elements Do We Need?. IEEE Wireless Communications Letters, 2021, 10, 1098-1102.	5.0	29
117	MetaSensing: Intelligent Metasurface Assisted RF 3D Sensing by Deep Reinforcement Learning. IEEE Journal on Selected Areas in Communications, 2021, 39, 2182-2197.	14.0	29
118	MetaRadar: Indoor Localization by Reconfigurable Metamaterials. IEEE Transactions on Mobile Computing, 2022, 21, 2895-2908.	5.8	29
119	Zero-Determinant Strategy for Resource Sharing in Wireless Cooperations. IEEE Transactions on Wireless Communications, 2016, 15, 2179-2192.	9.2	28
120	Holographic Integrated Sensing and Communication. IEEE Journal on Selected Areas in Communications, 2022, 40, 2114-2130.	14.0	28
121	Simultaneously Transmitting and Reflecting Intelligent Omni-Surfaces: Modeling and Implementation. IEEE Vehicular Technology Magazine, 2022, 17, 46-54.	3.4	28
122	Power allocation using Vickrey auction and sequential first-price auction games for physical layer security in cognitive relay networks. , 2012, , .		27
123	Radio resource allocation for non-orthogonal multiple access (NOMA) relay network using matching game. , 2016, , .		27
124	Interference Improves PHY Security for Cognitive Radio Networks. IEEE Transactions on Information Forensics and Security, 2016, 11, 609-620.	6.9	26
125	A Distributed Differential Space-Time Coding Scheme With Analog Network Coding in Two-Way Relay Networks. IEEE Transactions on Signal Processing, 2012, 60, 4998-5004.	5.3	25
126	Overlapping coalitional games for collaborative sensing in cognitive radio networks. , 2013, , .		25

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127	NOMA-Based Low-Latency and High-Reliable Broadcast Communications for 5G V2X Services. , 2017, , .		24
128	Satellite-Aerial Integrated Computing in Disasters: User Association and Offloading Decision. , 2020, , .		24
129	AQ360: UAV-Aided Air Quality Monitoring by 360-Degree Aerial Panoramic Images in Urban Areas. IEEE Internet of Things Journal, 2021, 8, 428-442.	8.7	24
130	Joint Relay and Jammer Selection for Secure Two-Way Relay Networks. , 2011, , .		23
131	Zero-determinant strategy for power control of small cell network. , 2014, , .		23
132	Collaborative Smartphone Sensing Using Overlapping Coalition Formation Games. IEEE Transactions on Mobile Computing, 2017, 16, 30-43.	5.8	23
133	Arms: A Fine-Grained 3D AQI Realtime Monitoring System by UAV. , 2017, , .		23
134	Short-Packet Two-Way Amplify-and-Forward Relaying. IEEE Signal Processing Letters, 2018, 25, 263-267.	3.6	23
135	Hybrid MAC Protocol Design and Optimization for Full Duplex Wi-Fi Networks. IEEE Transactions on Wireless Communications, 2018, 17, 3615-3630.	9.2	23
136	Proactive Video Push for Optimizing Bandwidth Consumption in Hybrid CDN-P2P VoD Systems. , 2018, , .		23
137	Cyclic Three-Sided Matching Game Inspired Wireless Network Virtualization. IEEE Transactions on Mobile Computing, 2021, 20, 416-428.	5.8	23
138	Reconfigurable Intelligent Surface Enhanced NOMA Assisted Backscatter Communication System. IEEE Transactions on Vehicular Technology, 2021, 70, 7261-7266.	6.3	23
139	Distributed Coalition Formation of Relay and Friendly Jammers for Secure Cooperative Networks. , 2011, , .		21
140	Social network enhanced device-to-device communication underlying cellular networks. , 2013, , .		21
141	Joint relay and antenna selection for full-duplex AF relay networks. , 2014, , .		21
142	Bridge the Gap Between ADMM and Stackelberg Game: Incentive Mechanism Design for Big Data Networks. IEEE Signal Processing Letters, 2017, 24, 191-195.	3.6	21
143	Privacy-Preserving Incentive Mechanism Design for Federated Cloud-Edge Learning. IEEE Transactions on Network Science and Engineering, 2021, 8, 2588-2600.	6.4	21
144	Improve physical layer security in cooperative wireless network using distributed auction games. , 2011, , .		20

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145	Overlapping coalition formation games for cooperative interference management in small cell networks. , 2013, , .		20
146	Dual Trajectory Optimization for a Cooperative Internet of UAVs. IEEE Communications Letters, 2019, 23, 1093-1096.	4.1	20
147	Reconfigurable Holographic Surface-Enabled Multi-User Wireless Communications: Amplitude-Controlled Holographic Beamforming. IEEE Transactions on Wireless Communications, 2022, 21, 6003-6017.	9.2	20
148	Simultaneous Bidirectional Link Selection in Full Duplex MIMO Systems. IEEE Transactions on Wireless Communications, 2015, 14, 4052-4062.	9.2	19
149	AQNet: Fine-grained 3D spatio-temporal air quality monitoring by aerial-ground WSN. , 2018, , .		19
150	Age of Information Minimization for Grant-Free Non-Orthogonal Massive Access Using Mean-Field Games. IEEE Transactions on Communications, 2021, 69, 7806-7820.	7.8	19
151	EPASS360: QoE-Aware 360-Degree Video Streaming Over Mobile Devices. IEEE Transactions on Mobile Computing, 2021, 20, 2338-2353.	5.8	18
152	Meta-Wall: Intelligent Omni-Surfaces Aided Multi-Cell MIMO Communications. IEEE Transactions on Wireless Communications, 2022, 21, 7026-7039.	9.2	18
153	MetaRadar: Multi-Target Detection for Reconfigurable Intelligent Surface Aided Radar Systems. IEEE Transactions on Wireless Communications, 2022, 21, 6994-7010.	9.2	18
154	On the Minimum Differential Feedback for Time-Correlated MIMO Rayleigh Block-Fading Channels. IEEE Transactions on Communications, 2012, 60, 411-420.	7.8	17
155	Joint spectrum access and power allocation in full-duplex cognitive cellular networks. , 2015, , .		17
156	Exploiting the Stable Fixture Matching Game for Content Sharing in D2D-Based LTE-V2X Communications. , 2016, , .		17
157	PERM: Neural Adaptive Video Streaming with Multi-path Transmission. , 2020, , .		17
158	Power Allocation for Two-Way Relay System Based on Sequential Second Price Auction. Wireless Personal Communications, 2012, 67, 47-62.	2.7	16
159	Interference Alignment With Differential Feedback. IEEE Transactions on Vehicular Technology, 2012, 61, 2878-2883.	6.3	16
160	Cell selection in two-tier femtocell networks with open/closed access using evolutionary game. , 2013, , .		16
161	Game Theory for Big Data Processing: Multileader Multifollower Game-Based ADMM. IEEE Transactions on Signal Processing, 2018, 66, 3933-3945.	5.3	16
162	Mean-Field-Type Game-Based Computation Offloading in Multi-Access Edge Computing Networks. IEEE Transactions on Wireless Communications, 2020, 19, 8366-8381.	9.2	16

#	ARTICLE	IF	CITATIONS
163	Interference Exploitation Precoding for Reconfigurable Intelligent Surface Aided Multi-User Communications With Direct Links. IEEE Wireless Communications Letters, 2020, 9, 1937-1941.	5.0	16
164	AirScope: Mobile Robots-Assisted Cooperative Indoor Air Quality Sensing by Distributed Deep Reinforcement Learning. IEEE Internet of Things Journal, 2020, 7, 9189-9200.	8.7	16
165	Spatial Equalization Before Reception: Reconfigurable Intelligent Surfaces for Multi-Path Mitigation. , 2021, , .		16
166	Mode selection, user pairing, subcarrier allocation and power control in full-duplex OFDMA HetNets. , 2015, , .		15
167	X-Duplex Radios: Flexible Switching Between Full-Duplex and Half-Duplex. IEEE Wireless Communications Letters, 2018, 7, 94-97.	5.0	15
168	Real-Time Fine-Grained Air Quality Sensing Networks in Smart City: Design, Implementation, and Optimization. IEEE Internet of Things Journal, 2019, 6, 7526-7542.	8.7	15
169	Peer-to-Peer Packet Dispatching for Multi-Router Local Area Packetized Power Networks. IEEE Transactions on Smart Grid, 2019, 10, 5748-5758.	9.0	15
170	Peer-to-Peer Energy Trading in DC Packetized Power Microgrids. IEEE Journal on Selected Areas in Communications, 2020, 38, 17-30.	14.0	15
171	On Spatial Multiplexing Using Reconfigurable Intelligent Surfaces. IEEE Wireless Communications Letters, 2021, 10, 226-230.	5.0	15
172	Machine Learning Empowered Resource Allocation in IRS Aided MISO-NOMA Networks. IEEE Transactions on Wireless Communications, 2022, 21, 3478-3492.	9.2	15
173	HDMA: Holographic-Pattern Division Multiple Access. IEEE Journal on Selected Areas in Communications, 2022, 40, 1317-1332.	14.0	15
174	Roadside-unit caching in vehicular ad hoc networks for efficient popular content delivery. , 2015, , .		14
175	Pricing and Resource Allocation Optimization for IoT Fog Computing and NFV: An EPEC and Matching Based Perspective. IEEE Transactions on Mobile Computing, 2022, 21, 1349-1361.	5.8	14
176	Joint Relay and Jammer Selection for Secure Decode-and-Forward Two-Way Relay Communications. , 2011, , .		13
177	On the Performance of X-Duplex Relaying. IEEE Transactions on Wireless Communications, 2017, 16, 1868-1880.	9.2	13
178	ROOMMATEs: An Unsupervised Indoor Peer Discovery Approach for LTE D2D Communications. IEEE Transactions on Vehicular Technology, 2018, 67, 5069-5083.	6.3	13
179	Device-to-Device Communications Underlying Cellular Networks: To Use Unlicensed Spectrum or Not?. IEEE Transactions on Communications, 2019, 67, 6598-6611.	7.8	13
180	Sensing and Communication Tradeoff Design for AoI Minimization in a Cellular Internet of UAVs. , 2020, , .		13

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181	Joint Resource Management With Distributed Uplink Power Control in Full-Duplex OFDMA Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 2850-2863.	6.3	13
182	Ultra-Dense LEO Satellite Based Formation Flying. IEEE Transactions on Communications, 2021, 69, 3091-3105.	7.8	12
183	Dual Codebook Design for Intelligent Omni-Surface Aided Communications. IEEE Transactions on Wireless Communications, 2022, 21, 9232-9245.	9.2	12
184	Selective combining for hybrid cooperative networks. IET Communications, 2014, 8, 471-482.	2.2	11
185	Device-to-Device Load Balancing for Cellular Networks. , 2015, , .		11
186	Dynamic femtocaching for mobile users. , 2015, , .		11
187	Cost Efficiency for Economical Mobile Data Traffic Management From Users's Perspective. IEEE Transactions on Wireless Communications, 2017, 16, 362-375.	9.2	11
188	Large-Scale Fog Computing Optimization Using Equilibrium Problem with Equilibrium Constraints. , 2017, , .		11
189	LadderNet: Knowledge Transfer Based Viewpoint Prediction in 360° Video. , 2019, , .		11
190	Distributed Trajectory Design for Cooperative Internet of UAVs Using Deep Reinforcement Learning. , 2019, , .		11
191	Joint Data Offloading and Resource Allocation for Multi-Cloud Heterogeneous Mobile Edge Computing Using Multi-Agent Reinforcement Learning. , 2019, , .		11
192	Device-to-Device Load Balancing for Cellular Networks. IEEE Transactions on Communications, 2019, 67, 3040-3054.	7.8	11
193	Unlicensed Spectrum Sharing with WiGig in Millimeter-wave Cellular Networks in 6G Era. , 2020, , .		11
194	Intelligent Omni-Surface Enhanced Aerial Secure Offloading. IEEE Transactions on Vehicular Technology, 2022, 71, 5007-5022.	6.3	11
195	Design and implementation of device-to-device software-defined networks. , 2016, , .		10
196	Tri-Level Stackelberg Game for Resource Allocation in Radio Access Network Slicing. , 2018, , .		10
197	Sensor Deployment Recommendation for 3D Fine-Grained Air Quality Monitoring Using Semi-Supervised Learning. , 2018, , .		10
198	A Mean-Field-Type Game Approach to Computation Offloading in Mobile Edge Computing Networks. , 2019, , .		10

#	ARTICLE	IF	CITATIONS
199	Equilibrium Problems With Equilibrium Constraints Analysis for Power Control and User Scheduling in NOMA Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 5467-5480.	6.3	10
200	Capacity Analysis of Bidirectional AF Relay Selection with Imperfect Channel State Information. IEEE Wireless Communications Letters, 2013, 2, 255-258.	5.0	9
201	SDN based uniform network architecture for future wireless networks. , 2014, , .		9
202	Weighted Bidirectional Relay Selection for Outdated Channel State Information. IEEE Transactions on Communications, 2014, 62, 500-509.	7.8	9
203	Radio resource management for cloud-RAN networks with computing capability constraints. , 2016, , .		9
204	Data Offloading in Ultra-Dense LEO-Based Integrated Terrestrial-Satellite Networks. , 2018, , .		9
205	TCM-NOMA: Joint Multi-User Codeword Design and Detection in Trellis-Coded Modulation-Based NOMA for Beyond 5G. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 766-780.	10.8	9
206	MetaSketch: Wireless Semantic Segmentation by Reconfigurable Intelligent Surfaces. IEEE Transactions on Wireless Communications, 2022, 21, 5916-5929.	9.2	9
207	Multi-layer LEO Satellite Constellation Design for Seamless Global Coverage. , 2021, , .		9
208	Reconfigurable Refractive Surfaces: An Energy-Efficient Way to Holographic MIMO. IEEE Communications Letters, 2022, 26, 2490-2494.	4.1	9
209	Improve secure communications in cognitive two-way relay networks using sequential second price auction. , 2011, , .		8
210	Joint power control and subchannel allocation for OFDMA femtocell networks using distributed auction game. , 2012, , .		8
211	Signal Detection for Differential Bidirectional Relaying with Analog Network Coding under Imperfect Synchronisation. IEEE Communications Letters, 2013, 17, 1132-1135.	4.1	8
212	Financing contract with adverse selection and moral hazard for spectrum trading in cognitive radio networks. , 2015, , .		8
213	Device-to-device communications underlying cellular networks in unlicensed bands. , 2017, , .		8
214	RSS Fingerprinting Based Multi-user Outdoor Localization Using Reconfigurable Intelligent Surfaces. , 2021, , .		8
215	Collaborative data dissemination in cognitive VANETs with sensing-throughput tradeoff. , 2012, , .		7
216	Exploiting Student-Project Allocation Matching for Spectrum Sharing in LTE-Unlicensed. , 2014, , .		7

#	ARTICLE	IF	CITATIONS
217	Trellis Coded Modulation for Code-Domain Non-Orthogonal Multiple Access Networks. , 2018, , .		7
218	Clustering Based Diversity Improving Transmit Laser Selection Schemes Using Quantized Feedback for FSO System. IEEE Transactions on Vehicular Technology, 2021, 70, 6855-6868.	6.3	7
219	Cellular Assisted UAV Sensing. Wireless Networks, 2020, , 101-221.	0.5	7
220	Multi-Layer Computation Offloading in Distributed Heterogeneous Mobile Edge Computing Networks. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 1301-1315.	7.9	7
221	Loss-Privacy Tradeoff in Federated Edge Learning. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 546-558.	10.8	7
222	Adaptive modulation and coding for two-way amplify-and-forward relay networks. , 2012, , .		6
223	Zero-determinant strategy in cheating management of wireless cooperation. , 2014, , .		6
224	Source and physical-layer network coding for correlated two-way relaying. IET Communications, 2016, 10, 502-507.	2.2	6
225	Bridging the gap between big data and game theory: A general hierarchical pricing framework. , 2017, , .		6
226	Optimal Trajectory Planning of Drones for 3D Mobile Sensing. , 2018, , .		6
227	Resource Allocation and Trajectory Design for Cellular UAV-to-X Communication Networks in 5G. , 2018, , .		6
228	Trajectory Optimization and Resource Allocation for Multi-User OFDMA UAV Relay Networks. , 2019, , .		6
229	Joint Task Assignment and Resource Allocation in the Heterogeneous Multi-Layer Mobile Edge Computing Networks. , 2019, , .		6
230	Sense-Store-Send: Trajectory Optimization for a Buffer-Aided Internet of UAVs. IEEE Communications Letters, 2020, 24, 2888-2892.	4.1	6
231	Symbol Error Rate Analysis and Power Allocation for Adaptive Relay Selection Schemes. Wireless Personal Communications, 2011, 56, 457-467.	2.7	5
232	Joint transmit and receive antennas selection for full duplex MIMO systems. , 2014, , .		5
233	Topology-Aware Incentive Mechanism for Cooperative Relay Networks. , 2015, , .		5
234	Small-cell caching mechanism for multi-service providers. , 2015, , .		5

#	ARTICLE	IF	CITATIONS
235	Complementary Investment of Infrastructure and Service Providers in Wireless Network Virtualization. , 2016, , .		5
236	Hypergraph based resource allocation for cross-cell device-to-device communications. , 2016, , .		5
237	Resource allocation in wireless powered relay networks through a nash bargaining game. , 2016, , .		5
238	X-Duplex Relaying: Adaptive Antenna Configuration. IEEE Communications Letters, 2017, 21, 1083-1086.	4.1	5
239	Multi-leader multi-follower game-based ADMM for big data processing. , 2017, , .		5
240	Spectrum Trading Contract Design for UAV Assisted Offloading in Cellular Networks. , 2018, , .		5
241	Cellular Communications Over Unlicensed mmWave Bands With Hybrid Beamforming. IEEE Transactions on Wireless Communications, 2022, 21, 6064-6078.	9.2	5
242	Power allocation for two-way relay system based on sequential second price auction. , 2011, , .		4
243	Satellite-Based Spectrum Sensing for Dynamic Spectrum Sharing in Ground-Located CRNs. Wireless Personal Communications, 2011, 57, 105-117.	2.7	4
244	Superimposed Training-Based Channel Estimation for MIMO Relay Networks. International Journal of Antennas and Propagation, 2012, 2012, 1-11.	1.2	4
245	Radio Resource Allocation for Downlink Non-Orthogonal Multiple Access (NOMA) Networks Using Matching Theory. , 2014, , .		4
246	Cross-Layer Protocol Design for Distributed Full-Duplex Network. , 2015, , .		4
247	Compressed Relaying for Two-Way Relay Networks With Correlated Sources. IEEE Wireless Communications Letters, 2015, 4, 30-33.	5.0	4
248	Full Duplex in Massive MIMO Systems: Analysis and Feasibility. , 2016, , .		4
249	Fairness-Throughput Tradeoff in Full-Duplex WiFi Networks. , 2016, , .		4
250	Game Theoretic Approaches to Massive Data Processing in Wireless Networks. IEEE Wireless Communications, 2018, 25, 98-104.	9.0	4
251	Cellular V2X Communications in Unlicensed Spectrum for 5G Networks. , 2018, , .		4
252	Real-time Prediction for Fine-grained Air Quality Monitoring System with Asynchronous Sensing. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
253	Virtual Resource Allocation for Mobile Edge Computing: A Hypergraph Matching Approach. , 2019, , .		4
254	How Capacity is Influenced by Ultra-dense LEO Topology in Multi-terminal Satellite Systems?. , 2020, , .		4
255	UAV Assisted Cellular Communications. <i>Wireless Networks</i> , 2020, , 61-100.	0.5	4
256	Meta-IoT: Simultaneous Sensing and Transmission by Meta-Material Sensor-Based Internet of Things. <i>IEEE Transactions on Wireless Communications</i> , 2022, 21, 6048-6063.	9.2	4
257	Holographic Beamforming for Ultra Massive MIMO With Limited Radiation Amplitudes: How Many Quantized Bits Do We Need?. <i>IEEE Communications Letters</i> , 2022, 26, 1403-1407.	4.1	4
258	Privacy-Preserving Federated Edge Learning: Modeling and Optimization. <i>IEEE Communications Letters</i> , 2022, 26, 1489-1493.	4.1	4
259	QoS-aware packet forwarding in MIMO sensor networks: a cross-layer approach. <i>Wireless Communications and Mobile Computing</i> , 2010, 10, 748-757.	1.2	3
260	Hybrid forward scheme with generalized selective combining. , 2011, , .		3
261	Cost-efficient residential load scheduling in smart grid. , 2014, , .		3
262	Balanced Interest Distribution in Smart Grid: A Nash Bargaining Demand Side Management Scheme. , 2016, , .		3
263	Computing resource constraint in wireless M2M communications. , 2016, , .		3
264	An EPEC Analysis for Power Allocation in LTE-V Networks. , 2017, , .		3
265	Cooperative Sensing and Transmission for Cellular Network Controlled Unmanned Aerial Vehicles. , 2018, , .		3
266	Cellular Internet-of-Things (IoT) Communications over Unlicensed Band. , 2018, , .		3
267	Implementation and Optimization of Real-Time Fine-Grained Air Quality Sensing Networks in Smart City. , 2019, , .		3
268	Network Controlled D2D Communications: Licensed or Unlicensed Spectrum?. , 2019, , .		3
269	Joint Platoon Formation and Resource Allocation for Connected Vehicles by Cellular V2X Communication. , 2019, , .		3
270	Peer-to-Peer Energy Trading in DC Packetized Power Microgrids Using Iterative Auction. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
271	Distributed Energy Saving for Heterogeneous Multi-layer Mobile Edge Computing. , 2020, , .		3
272	Reconfigurable Intelligent Surface Assisted D2D Networks: Power and Discrete Phase Shift Design. , 2020, , .		3
273	Meta-material Sensors based Internet of Things for 6G Communications. , 2021, , .		3
274	On the Minimum Differential Feedback for Time-Correlated MIMO Rayleigh Block-Fading Channels. , 2010, , .		2
275	Editorial: Special Issue on Cognitive Radio Networks and Communications. <i>Wireless Personal Communications</i> , 2011, 57, 1-3.	2.7	2
276	Evolutionary channel state information feedback control for interference alignment. , 2011, , .		2
277	Users association in small cell networks with massive MIMO. , 2016, , .		2
278	Protocol design and performance analysis for X-Duplex amplify-and-forward relay networks. , 2016, , .		2
279	Load Balancing for Cellular Networks Using Device-to-Device Communications. , 2017, , .		2
280	Hybrid MAC Protocol for Full Duplex Wi-Fi Networks. , 2017, , .		2
281	Cooperative Collision Avoidance Scheme Design and Analysis in V2X-Based Driving Systems. , 2018, , .		2
282	Peer to Peer Packet Dispatching for Local Area Packetized Power Networks with Multiple Routers. , 2018, , .		2
283	Trajectory Design for Overlay UAV-to-Device Communications by Deep Reinforcement Learning. , 2019, , .		2
284	Hypergraph-Based SCMA Codebook Allocation in User-Centric Ultra-Dense Networks with Machine Learning. , 2019, , .		2
285	Deep Reinforcement Learning based Indoor Air Quality Sensing by Cooperative Mobile Robots. , 2020, , .		2
286	RIS Aided RF Sensing and Localization. <i>Wireless Networks</i> , 2021, , 161-251.	0.5	2
287	Device-to-Device Communications over Unlicensed Spectrum. , 2017, , 1-30.		2
288	Meta-Material Sensor Based Internet of Things: Design, Optimization, and Implementation. <i>IEEE Transactions on Communications</i> , 2022, 70, 5645-5662.	7.8	2

#	ARTICLE	IF	CITATIONS
289	Enforce truth-telling in wireless relay networks for secure communication. , 2011, , .		1
290	A feedback rate control game using sequential second price auction for channel state information and intercell interference in wireless networks. , 2011, , .		1
291	Emerging techniques for wireless vehicular communications. Wireless Communications and Mobile Computing, 2011, 11, 783-786.	1.2	1
292	Interference Alignment with Differential Feedback for Time-Correlated MIMO Channels. , 2011, , .		1
293	Attack against electricity market-attacker and defender gaming. , 2012, , .		1
294	Turning interference weakness into PHY security enhancement for cognitive radio networks. , 2013, , .		1
295	Efficient resource optimization for heterogeneous smart-building networks. , 2014, , .		1
296	Advances in Device-to-Device Communications and Networks. International Journal of Antennas and Propagation, 2015, 2015, 1-2.	1.2	1
297	Equilibrium analysis for zero-determinant strategy in resource management of wireless network. , 2015, , .		1
298	Cost efficiency: Economical mobile data traffic pre-scheduling in user's perspective. , 2016, , .		1
299	A Stackelberg Game Approach to Large-Scale Edge Caching. , 2018, , .		1
300	Human Behavior Based Learning Framework for Spectrum Allocation in Downlink CoMP for 5G Networks. , 2018, , .		1
301	Peer to Peer Packet Dispatching in DC Power Packetized Microgrids. , 2019, , .		1
302	Cooperative Trajectory Optimization for a Cellular Internet of UAVs. , 2019, , .		1
303	Pricing Mechanism Design for Data Offloading in Ultra-Dense LEO-Based Satellite-Terrestrial Networks. , 2019, , .		1
304	Multi-Layer Radio Network Slicing for Heterogeneous Communication Systems. IEEE Transactions on Network Science and Engineering, 2020, 7, 2378-2391.	6.4	1
305	Codebook Design and Beam Training for Intelligent Omni-Surface Aided Communications. , 2022, , .		1
306	Relay Selection for Bi-Directional Amplify-and-Forward Wireless Networks. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
307	Feedback Control Game for Channel State Information in Wireless Networks. , 2011, , .		0
308	A distributed differential space-time coding scheme with analog network coding in two-way relay networks. , 2012, , .		0
309	Channel state information feedback control game for energy efficient wireless networks. , 2013, , .		0
310	Wireless Device-to-Device hypergraph optimization. , 2014, , .		0
311	A Hierarchical Game Approach for Multi-Operator Spectrum Sharing in LTE Unlicensed. , 2014, , .		0
312	Topology-Aware Incentive Mechanism for Cooperative Relay Networks. , 2014, , .		0
313	Cross-Layer Protocol Design for Distributed Full-Duplex Network. , 2014, , .		0
314	MU-MIMO Resource Optimization for Device-to-Device Underlay Downlink Cellular Networks. , 2014, , .		0
315	MU-MIMO Resource Optimization for Device-to-Device Underlay Downlink Cellular Networks. , 2015, , .		0
316	SIGN: War-Driving Free Indoor Navigation Using Coded Visual Tags. , 2018, , .		0
317	Optimal Trajectory Planning for UAV-relayed Dynamic Spectrum Access. , 2018, , .		0
318	Human Behavior Based Learning Framework for Small Cell Placement in 5G Networks Using Hypergraph Construction. , 2018, , .		0
319	Stackelberg-type channel state information feedback control game for energy efficiency in wireless networks. IET Communications, 2018, 12, 297-303.	2.2	0
320	Device-to-Device Communications over Unlicensed Spectrum. , 2019, , 1205-1234.		0
321	RIS Aided MIMO Communications. Wireless Networks, 2021, , 19-104.	0.5	0
322	Convergences of RISs with Existing Wireless Technologies. Wireless Networks, 2021, , 105-160.	0.5	0
323	Introductions and Basics. Wireless Networks, 2021, , 1-17.	0.5	0
324	Cluster-based Handoff Scheme Design for Platoons in Cellular V2X Networks. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
325	Guest editorial: Cellular Internet of UAVs for 5G and beyond. IET Communications, 2021, 15, 1259-1261.	2.2	0
326	Guest Editorial: Special Issue on Internet of UAVs Over Cellular Networks. IEEE Internet of Things Journal, 2021, 8, 9774-9775.	8.7	0
327	Device-to-Device Communications over Unlicensed Spectrum. , 2017, , 1-30.		0
328	Overview of 5G and Beyond Communications. Wireless Networks, 2020, , 1-25.	0.5	0