

# Lingyang Song

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

288  
papers

7,856  
citations

46  
h-index

77  
g-index

333  
ext. papers

9,987  
ext. citations

6.9  
avg, IF

6.97  
L-index

#	Paper	IF	Citations
288	Meta-IoT: Simultaneous Sensing and Transmission by Meta-material Sensor Based Internet of Things. <i>IEEE Transactions on Wireless Communications</i> , <b>2022</b> , 1-1	9.6	1
287	HDMA: Holographic-Pattern Division Multiple Access. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2022</b> , 1-1	14.2	2
286	MetaSketch: Wireless Semantic Segmentation by Reconfigurable Intelligent Surfaces. <i>IEEE Transactions on Wireless Communications</i> , <b>2022</b> , 1-1	9.6	4
285	Reconfigurable Holographic Surface Enabled Multi-User Wireless Communications: Amplitude-Controlled Holographic Beamforming. <i>IEEE Transactions on Wireless Communications</i> , <b>2022</b> , 1-1	9.6	1
284	Cellular Communications over Unlicensed mmWave Bands with Hybrid Beamforming. <i>IEEE Transactions on Wireless Communications</i> , <b>2022</b> , 1-1	9.6	1
283	Multi-layer Computation Offloading in Distributed Heterogeneous Mobile Edge Computing Networks. <i>IEEE Transactions on Cognitive Communications and Networking</i> , <b>2022</b> , 1-1	6.6	3
282	Meta-Wall: Intelligent Omni-Surfaces Aided Multi-Cell MIMO Communications. <i>IEEE Transactions on Wireless Communications</i> , <b>2022</b> , 1-1	9.6	6
281	Loss-Privacy Tradeoff in Federated Edge Learning. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2022</b> , 1-1	7.5	2
280	Holographic Integrated Sensing and Communication. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2022</b> , 1-1	14.2	4
279	Holographic Beamforming for Ultra Massive MIMO with Limited Radiation Amplitudes: How Many Quantized Bits Do We Need?. <i>IEEE Communications Letters</i> , <b>2022</b> , 1-1	3.8	
278	MetaRadar: Multi-target Detection for Reconfigurable Intelligent Surface Aided Radar Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2022</b> , 1-1	9.6	4
277	Intelligent Omni-Surface Enhanced Aerial Secure Offloading. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1	6.8	4
276	Intelligent Omni-Surfaces for Full-Dimensional Wireless Communications: Principles, Technology, and Implementation. <i>IEEE Communications Magazine</i> , <b>2022</b> , 60, 39-45	9.1	18
275	Privacy-Preserving Federated Edge Learning: Modelling and Optimization. <i>IEEE Communications Letters</i> , <b>2022</b> , 1-1	3.8	
274	Simultaneously Transmitting and Reflecting Intelligent Omni-Surfaces: Modeling and Implementation. <i>IEEE Vehicular Technology Magazine</i> , <b>2022</b> , 2-10	9.9	7
273	Toward Ubiquitous Sensing and Localization With Reconfigurable Intelligent Surfaces. <i>Proceedings of the IEEE</i> , <b>2022</b> , 1-22	14.3	6
272	Dual Codebook Design for Intelligent Omni-Surface Aided Communications. <i>IEEE Transactions on Wireless Communications</i> , <b>2022</b> , 1-1	9.6	1

271	Meta-material Sensors based Internet of Things for 6G Communications <b>2021</b> ,		1
270	. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2021</b> , 1-1	14.2	6
269	Machine Learning Empowered Resource Allocation in IRS Aided MISO-NOMA Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 1-1	9.6	5
268	RIS Fingerprinting Based Multi-user Outdoor Localization Using Reconfigurable Intelligent Surfaces <b>2021</b> ,		1
267	Distributed Multi-Cloud Multi-Access Edge Computing by Multi-Agent Reinforcement Learning. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 20, 2565-2578	9.6	10
266	Ultra-Dense LEO Satellite Based Formation Flying. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 69, 3091-3105	8.105	2
265	Reconfigurable Intelligent Surface Assisted Device-to-Device Communications. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 20, 2792-2804	9.6	24
264	Reconfigurable Intelligent Surface Assisted Multi-User Communications: How Many Reflective Elements Do We Need?. <i>IEEE Wireless Communications Letters</i> , <b>2021</b> , 10, 1098-1102	5.9	11
263	Spatial Equalization Before Reception: Reconfigurable Intelligent Surfaces for Multi-Path Mitigation <b>2021</b> ,		8
262	Reconfigurable Intelligent Surfaces in 6G: Reflective, Transmissive, or Both?. <i>IEEE Communications Letters</i> , <b>2021</b> , 25, 2063-2067	3.8	23
261	Reconfigurable Holographic Surface: Holographic Beamforming for Metasurface-Aided Wireless Communications. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 6255-6259	6.8	13
260	Beyond Cell-Free MIMO: Energy Efficient Reconfigurable Intelligent Surface Aided Cell-Free MIMO Communications. <i>IEEE Transactions on Cognitive Communications and Networking</i> , <b>2021</b> , 7, 412-426	6.6	30
259	EPASS360: QoE-Aware 360-Degree Video Streaming Over Mobile Devices. <i>IEEE Transactions on Mobile Computing</i> , <b>2021</b> , 20, 2338-2353	4.6	7
258	AQ360: UAV-Aided Air Quality Monitoring by 360-Degree Aerial Panoramic Images in Urban Areas. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 428-442	10.7	9
257	Reconfigurable Intelligent Surface (RIS) Assisted Wireless Coverage Extension: RIS Orientation and Location Optimization. <i>IEEE Communications Letters</i> , <b>2021</b> , 25, 269-273	3.8	48
256	Towards Ubiquitous Positioning by Leveraging Reconfigurable Intelligent Surface. <i>IEEE Communications Letters</i> , <b>2021</b> , 25, 284-288	3.8	24
255	On Spatial Multiplexing Using Reconfigurable Intelligent Surfaces. <i>IEEE Wireless Communications Letters</i> , <b>2021</b> , 10, 226-230	5.9	7
254	Cyclic Three-Sided Matching Game Inspired Wireless Network Virtualization. <i>IEEE Transactions on Mobile Computing</i> , <b>2021</b> , 20, 416-428	4.6	13

253	Age of Information Minimization for Grant-Free Non-orthogonal Massive Access using Mean-Field Games. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 1-1	6.9	2
252	RIS Aided MIMO Communications. <i>Wireless Networks</i> , <b>2021</b> , 19-104	0.6	
251	Intelligent Omni-Surfaces: Ubiquitous Wireless Transmission by Reflective-Refractive Metasurfaces. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 1-1	9.6	29
250	MetaLocalization: Reconfigurable Intelligent Surface Aided Multi-user Wireless Indoor Localization. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 1-1	9.6	25
249	Convergences of RISs with Existing Wireless Technologies. <i>Wireless Networks</i> , <b>2021</b> , 105-160	0.6	
248	Trajectory Optimization and Resource Allocation for OFDMA UAV Relay Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 1-1	9.6	5
247	RIS Aided RF Sensing and Localization. <i>Wireless Networks</i> , <b>2021</b> , 161-251	0.6	1
246	Introductions and Basics. <i>Wireless Networks</i> , <b>2021</b> , 1-17	0.6	
245	MetaSensing: Intelligent Metasurface Assisted RF 3D Sensing by Deep Reinforcement Learning. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2021</b> , 39, 2182-2197	14.2	11
244	Clustering Based Diversity Improving Transmit Laser Selection Schemes Using Quantized Feedback for FSO System. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 6855-6868	6.8	2
243	UAV-to-Device Underlay Communications: Age of Information Minimization by Multi-Agent Deep Reinforcement Learning. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 69, 4461-4475	6.9	7
242	Privacy-Preserving Incentive Mechanism Design for Federated Cloud-Edge Learning. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2021</b> , 8, 2588-2600	4.9	4
241	Reconfigurable Intelligent Surface Enhanced NOMA Assisted Backscatter Communication System. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 7261-7266	6.8	9
240	Ultra-Dense LEO Satellite Constellations: How Many LEO Satellites Do We Need?. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 20, 4843-4857	9.6	17
239	Reconfigurable Holographic Surfaces for Future Wireless Communications. <i>IEEE Wireless Communications</i> , <b>2021</b> , 28, 126-131	13.4	8
238	Equilibrium Problems With Equilibrium Constraints Analysis for Power Control and User Scheduling in NOMA Networks. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 5467-5480	6.8	5
237	Hybrid Precoding Design for Reconfigurable Intelligent Surface Aided mmWave Communication Systems. <i>IEEE Wireless Communications Letters</i> , <b>2020</b> , 9, 1041-1045	5.9	54
236	Beyond D2D: Full Dimension UAV-to-Everything Communications in 6G. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 6592-6602	6.8	61

235	Ultra-Dense LEO Satellite Offloading for Terrestrial Networks: How Much to Pay the Satellite Operator?. <i>IEEE Transactions on Wireless Communications</i> , <b>2020</b> , 19, 6240-6254	9.6	23
234	AirScope: Mobile Robots-Assisted Cooperative Indoor Air Quality Sensing by Distributed Deep Reinforcement Learning. <i>IEEE Internet of Things Journal</i> , <b>2020</b> , 7, 9189-9200	10.7	7
233	How Capacity is Influenced by Ultra-dense LEO Topology in Multi-terminal Satellite Systems? <b>2020</b> ,		4
232	Hybrid Beamforming for Reconfigurable Intelligent Surface based Multi-User Communications: Achievable Rates With Limited Discrete Phase Shifts. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2020</b> , 38, 1809-1822	14.2	163
231	Reconfigurable Intelligent Surfaces Assisted Communications With Limited Phase Shifts: How Many Phase Shifts Are Enough?. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 4498-4502	6.8	141
230	Practical Hybrid Beamforming With Finite-Resolution Phase Shifters for Reconfigurable Intelligent Surface Based Multi-User Communications. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 4565-4570	6.8	74
229	HetMEC: Heterogeneous Multi-Layer Mobile Edge Computing in the 6 G Era. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 4388-4400	6.8	28
228	Joint Resource Management With Distributed Uplink Power Control in Full-Duplex OFDMA Networks. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 2850-2863	6.8	7
227	Reinforcement Learning for a Cellular Internet of UAVs: Protocol Design, Trajectory Control, and Resource Management. <i>IEEE Wireless Communications</i> , <b>2020</b> , 27, 116-123	13.4	46
226	Cellular UAV-to-Device Communications: Trajectory Design and Mode Selection by Multi-Agent Deep Reinforcement Learning. <i>IEEE Transactions on Communications</i> , <b>2020</b> , 68, 4175-4189	6.9	37
225	Reconfigurable Intelligent Surfaces for Wireless Communications: Principles, Challenges, and Opportunities. <i>IEEE Transactions on Cognitive Communications and Networking</i> , <b>2020</b> , 6, 990-1002	6.6	172
224	MetaRadar: Indoor Localization by Reconfigurable Metamaterials. <i>IEEE Transactions on Mobile Computing</i> , <b>2020</b> , 1-1	4.6	15
223	Overview of 5G and Beyond Communications. <i>Wireless Networks</i> , <b>2020</b> , 1-25	0.6	
222	UAV Assisted Cellular Communications. <i>Wireless Networks</i> , <b>2020</b> , 61-100	0.6	2
221	Reconfigurable Intelligent Surface (RIS)-Enhanced Two-Way OFDM Communications. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 16270-16275	6.8	15
220	Unlicensed Spectrum Sharing with WiGig in Millimeter-wave Cellular Networks in 6G Era <b>2020</b> ,		5
219	Reconfigurable Intelligent Surface Assisted D2D Networks: Power and Discrete Phase Shift Design <b>2020</b> ,		1
218	Cellular Assisted UAV Sensing. <i>Wireless Networks</i> , <b>2020</b> , 101-221	0.6	6

217	Peer-to-Peer Energy Trading in DC Packetized Power Microgrids. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2020</b> , 38, 17-30	14.2	7
216	Unmanned Aerial Vehicle Applications over Cellular Networks for 5G and Beyond. <i>Wireless Networks</i> , <b>2020</b> ,	0.6	28
215	. <i>IEEE Transactions on Wireless Communications</i> , <b>2020</b> , 19, 8366-8381	9.6	6
214	Satellite-Aerial Integrated Computing in Disasters: User Association and Offloading Decision <b>2020</b> ,		12
213	Sensing and Communication Tradeoff Design for AoI Minimization in a Cellular Internet of UAVs <b>2020</b> ,		6
212	Interference Exploitation Precoding for Reconfigurable Intelligent Surface Aided Multi-User Communications With Direct Links. <i>IEEE Wireless Communications Letters</i> , <b>2020</b> , 9, 1937-1941	5.9	6
211	Beyond Intelligent Reflecting Surfaces: Reflective-Transmissive Metasurface Aided Communications for Full-Dimensional Coverage Extension. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 13905-13909	6.8	45
210	Improving Quality of Experience by Adaptive Video Streaming with Super-Resolution <b>2020</b> ,		4
209	Reconfigurable Intelligent Surface Based RF Sensing: Design, Optimization, and Implementation. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2020</b> , 38, 2700-2716	14.2	53
208	Multi-Layer Radio Network Slicing for Heterogeneous Communication Systems. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2020</b> , 7, 2378-2391	4.9	
207	Pricing and Resource Allocation Optimization for IoT Fog Computing and NFV: An EPEC and Matching Based Perspective. <i>IEEE Transactions on Mobile Computing</i> , <b>2020</b> , 1-1	4.6	4
206	Age of Information in a Cellular Internet of UAVs: Sensing and Communication Trade-Off Design. <i>IEEE Transactions on Wireless Communications</i> , <b>2020</b> , 19, 6578-6592	9.6	27
205	Sense-Store-Send: Trajectory Optimization for a Buffer-Aided Internet of UAVs. <i>IEEE Communications Letters</i> , <b>2020</b> , 24, 2888-2892	3.8	2
204	Distributed Energy Saving for Heterogeneous Multi-layer Mobile Edge Computing <b>2020</b> ,		1
203	PERM: Neural Adaptive Video Streaming with Multi-path Transmission <b>2020</b> ,		4
202	Cooperative Internet of UAVs: Distributed Trajectory Design by Multi-Agent Deep Reinforcement Learning. <i>IEEE Transactions on Communications</i> , <b>2020</b> , 68, 6807-6821	6.9	37
201	Reconfigurable Intelligent Surface Aided Cell-Free MIMO Communications. <i>IEEE Wireless Communications Letters</i> , <b>2020</b> , 1-1	5.9	16
200	Real-time Prediction for Fine-grained Air Quality Monitoring System with Asynchronous Sensing <b>2019</b> ,		3

199	Cellular UAV-to-X Communications: Design and Optimization for Multi-UAV Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2019</b> , 18, 1346-1359	9.6	184
198	<b>2019</b> ,		37
197	ImgSensingNet: UAV Vision Guided Aerial-Ground Air Quality Sensing System <b>2019</b> ,		24
196	LadderNet: Knowledge Transfer Based Viewpoint Prediction in 360o Video <b>2019</b> ,		6
195	Ultra-Dense LEO: Integration of Satellite Access Networks into 5G and Beyond. <i>IEEE Wireless Communications</i> , <b>2019</b> , 26, 62-69	13.4	79
194	Dual Trajectory Optimization for a Cooperative Internet of UAVs. <i>IEEE Communications Letters</i> , <b>2019</b> , 23, 1093-1096	3.8	15
193	Device-to-Device Communications over Unlicensed Spectrum <b>2019</b> , 1205-1234		
192	UAV Aided Aerial-Ground IoT for Air Quality Sensing in Smart City: Architecture, Technologies, and Implementation. <i>IEEE Network</i> , <b>2019</b> , 33, 14-22	11.4	44
191	IoT-U: Cellular Internet-of-Things Networks Over Unlicensed Spectrum. <i>IEEE Transactions on Wireless Communications</i> , <b>2019</b> , 18, 2477-2492	9.6	21
190	Cooperative Collision Avoidance for Overtaking Maneuvers in Cellular V2X-Based Autonomous Driving. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 4434-4446	6.8	18
189	HetMEC: Latency-Optimal Task Assignment and Resource Allocation for Heterogeneous Multi-Layer Mobile Edge Computing. <i>IEEE Transactions on Wireless Communications</i> , <b>2019</b> , 18, 4942-4956	9.6	38
188	Platoon Cooperation in Cellular V2X Networks for 5G and Beyond. <i>IEEE Transactions on Wireless Communications</i> , <b>2019</b> , 18, 3919-3932	9.6	37
187	Implementation and Optimization of Real-Time Fine-Grained Air Quality Sensing Networks in Smart City <b>2019</b> ,		2
186	Network Controlled D2D Communications: Licensed or Unlicensed Spectrum? <b>2019</b> ,		2
185	Device-to-Device Communications Underlying Cellular Networks: To Use Unlicensed Spectrum or Not?. <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 6598-6611	6.9	9
184	A Mean-Field-Type Game Approach to Computation Offloading in Mobile Edge Computing Networks <b>2019</b> ,		7
183	Cooperation Techniques for a Cellular Internet of Unmanned Aerial Vehicles. <i>IEEE Wireless Communications</i> , <b>2019</b> , 26, 167-173	13.4	43
182	Real-Time Fine-Grained Air Quality Sensing Networks in Smart City: Design, Implementation, and Optimization. <i>IEEE Internet of Things Journal</i> , <b>2019</b> , 6, 7526-7542	10.7	12

181	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2019</b> , 13, 766-780	7.5	6
180	Trajectory Optimization and Resource Allocation for Multi-User OFDMA UAV Relay Networks <b>2019</b> ,		5
179	Joint Task Assignment and Resource Allocation in the Heterogeneous Multi-Layer Mobile Edge Computing Networks <b>2019</b> ,		3
178	Pricing Mechanism Design for Data Offloading in Ultra-Dense LEO-Based Satellite-Terrestrial Networks <b>2019</b> ,		1
177	Distributed Trajectory Design for Cooperative Internet of UAVs Using Deep Reinforcement Learning <b>2019</b> ,		8
176	Virtual Resource Allocation for Mobile Edge Computing: A Hypergraph Matching Approach <b>2019</b> ,		2
175	Joint Data Offloading and Resource Allocation for Multi-Cloud Heterogeneous Mobile Edge Computing Using Multi-Agent Reinforcement Learning <b>2019</b> ,		4
174	Hypergraph-Based SCMA Codebook Allocation in User-Centric Ultra-Dense Networks with Machine Learning <b>2019</b> ,		1
173	Peer-to-Peer Energy Trading in DC Packetized Power Microgrids Using Iterative Auction <b>2019</b> ,		2
172	Device-to-Device Load Balancing for Cellular Networks. <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 3040-3054	6.9	6
171	Peer-to-Peer Packet Dispatching for Multi-Router Local Area Packetized Power Networks. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 5748-5758	10.7	9
170	. <i>IEEE Internet of Things Journal</i> , <b>2019</b> , 6, 1754-1767	10.7	27
169	Joint Task Assignment, Transmission, and Computing Resource Allocation in Multilayer Mobile Edge Computing Systems. <i>IEEE Internet of Things Journal</i> , <b>2019</b> , 6, 2872-2884	10.7	69
168	Reinforcement Learning for Decentralized Trajectory Design in Cellular UAV Networks With Sense-and-Send Protocol. <i>IEEE Internet of Things Journal</i> , <b>2019</b> , 6, 6177-6189	10.7	60
167	Ultra-Dense LEO: Integrating Terrestrial-Satellite Networks Into 5G and Beyond for Data Offloading. <i>IEEE Transactions on Wireless Communications</i> , <b>2019</b> , 18, 47-62	9.6	107
166	Short-Packet Two-Way Amplify-and-Forward Relaying. <i>IEEE Signal Processing Letters</i> , <b>2018</b> , 25, 263-267	3.2	16
165	Game Theoretic Approaches to Massive Data Processing in Wireless Networks. <i>IEEE Wireless Communications</i> , <b>2018</b> , 25, 98-104	13.4	4
164	Load Balancing for 5G Ultra-Dense Networks Using Device-to-Device Communications. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 4039-4050	9.6	35



163	X-Duplex Radios: Flexible Switching Between Full-Duplex and Half-Duplex. <i>IEEE Wireless Communications Letters</i> , <b>2018</b> , 7, 94-97	5.9	10
162	Joint Trajectory and Power Optimization for UAV Relay Networks. <i>IEEE Communications Letters</i> , <b>2018</b> , 22, 161-164	3.8	256
161	Real-Time Profiling of Fine-Grained Air Quality Index Distribution Using UAV Sensing. <i>IEEE Internet of Things Journal</i> , <b>2018</b> , 5, 186-198	10.7	87
160	Antenna Selection for MIMO Nonorthogonal Multiple Access Systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 3158-3171	6.8	35
159	ROOMMATES: An Unsupervised Indoor Peer Discovery Approach for LTE D2D Communications. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 5069-5083	6.8	11
158	Joint Radio and Computational Resource Allocation in IoT Fog Computing. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 7475-7484	6.8	94
157	Hybrid MAC Protocol Design and Optimization for Full Duplex Wi-Fi Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 3615-3630	9.6	15
156	Optimal Power Dispatching for Local Area Packetized Power Network. <i>IEEE Transactions on Smart Grid</i> , <b>2018</b> , 9, 4765-4776	10.7	25
155	UAV Relaying: Power Allocation and Trajectory Optimization Using Decode-and-Forward Protocol <b>2018</b> ,		34
154	AQNet: Fine-grained 3D spatio-temporal air quality monitoring by aerial-ground WSN <b>2018</b> ,		13
153	UAV Offloading: Spectrum Trading Contract Design for UAV-Assisted Cellular Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 6093-6107	9.6	42
152	A Stackelberg Game Approach to Proactive Caching in Large-Scale Mobile Edge Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 5198-5211	9.6	39
151	Cellular V2X Communications in Unlicensed Spectrum: Harmonious Coexistence With VANET in 5G Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 5212-5224	9.6	73
150	Optimal Trajectory Planning of Drones for 3D Mobile Sensing <b>2018</b> ,		4
149	Resource Allocation and Trajectory Design for Cellular UAV-to-X Communication Networks in 5G <b>2018</b> ,		4
148	Tri-Level Stackelberg Game for Resource Allocation in Radio Access Network Slicing <b>2018</b> ,		5
147	Cellular Internet-of-Things (IoT) Communications over Unlicensed Band <b>2018</b> ,		2
146	Data Offloading in Ultra-Dense LEO-Based Integrated Terrestrial-Satellite Networks <b>2018</b> ,		6

145	Peer to Peer Packet Dispatching for Local Area Packetized Power Networks with Multiple Routers <b>2018,</b>		1
144	Proactive Video Push for Optimizing Bandwidth Consumption in Hybrid CDN-P2P VoD Systems <b>2018,</b>		14
143	Sensor Deployment Recommendation for 3D Fine-Grained Air Quality Monitoring Using Semi-Supervised Learning <b>2018,</b>		8
142	Trellis Coded Modulation for Code-Domain Non-Orthogonal Multiple Access Networks <b>2018,</b>		6
141	Joint Trajectory and Power Optimization for UAV Sensing Over Cellular Networks. <i>IEEE Communications Letters</i> , <b>2018</b> , 22, 2382-2385	3.8	38
140	Cellular V2X Communications in Unlicensed Spectrum for 5G Networks <b>2018,</b>		4
139	Game Theory for Big Data Processing: Multileader Multifollower Game-Based ADMM. <i>IEEE Transactions on Signal Processing</i> , <b>2018</b> , 66, 3933-3945	4.8	10
138	Stackelberg-type channel state information feedback control game for energy efficiency in wireless networks. <i>IET Communications</i> , <b>2018</b> , 12, 297-303	1.3	
137	Collaborative Smartphone Sensing Using Overlapping Coalition Formation Games. <i>IEEE Transactions on Mobile Computing</i> , <b>2017</b> , 16, 30-43	4.6	18
136	Bridge the Gap Between ADMM and Stackelberg Game: Incentive Mechanism Design for Big Data Networks. <i>IEEE Signal Processing Letters</i> , <b>2017</b> , 24, 191-195	3.2	14
135	On the Performance of X-Duplex Relaying. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 1868-1880	3.8	11
134	X-Duplex Relaying: Adaptive Antenna Configuration. <i>IEEE Communications Letters</i> , <b>2017</b> , 21, 1083-1086	3.8	4
133	Non-Cash Auction for Spectrum Trading in Cognitive Radio Networks: Contract Theoretical Model With Joint Adverse Selection and Moral Hazard. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2017</b> , 35, 643-653	14.2	27
132	Incentive Mechanism for Mobile Crowdsourcing Using an Optimized Tournament Model. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2017</b> , 35, 880-892	14.2	38
131	Dynamic Path To Stability in LTE-Unlicensed With User Mobility: A Matching Framework. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 4547-4561	9.6	40
130	Full-Duplex Amplify-and-Forward Relaying: Power and Location Optimization. <i>IEEE Transactions on Vehicular Technology</i> , <b>2017</b> , 66, 8458-8468	6.8	29
129	Sub-Channel and Power Allocation for Non-Orthogonal Multiple Access Relay Networks With Amplify-and-Forward Protocol. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 2249-2261	9.6	56
128	D2D-U: Device-to-Device Communications in Unlicensed Bands for 5G System. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 3507-3519	9.6	101

127	How Much Computing Capability Is Enough to Run a Cloud Radio Access Network?. <i>IEEE Communications Letters</i> , <b>2017</b> , 21, 104-107	3.8	24
126	Non-Orthogonal Multiple Access for High-Reliable and Low-Latency V2X Communications in 5G Systems. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2017</b> , 35, 2383-2397	14.2	95
125	Roadside Unit Caching: Auction-Based Storage Allocation for Multiple Content Providers. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 6321-6334	9.6	30
124	Bridging the gap between big data and game theory: A general hierarchical pricing framework <b>2017</b> ,		5
123	Device-to-device communications underlaying cellular networks in unlicensed bands <b>2017</b> ,		4
122	Cost Efficiency for Economical Mobile Data Traffic Management From Users' Perspective. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 362-375	9.6	9
121	A Multi-Leader Multi-Follower Stackelberg Game for Resource Management in LTE Unlicensed. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 348-361	9.6	57
120	Arms: A Fine-Grained 3D AQI Realtime Monitoring System by UAV <b>2017</b> ,		20
119	NOMA-Based Low-Latency and High-Reliable Broadcast Communications for 5G V2X Services <b>2017</b> ,		18
118	Load Balancing for Cellular Networks Using Device-to-Device Communications <b>2017</b> ,		1
117	An EPEC Analysis for Power Allocation in LTE-V Networks <b>2017</b> ,		3
116	Large-Scale Fog Computing Optimization Using Equilibrium Problem with Equilibrium Constraints <b>2017</b> ,		8
115	Multi-leader multi-follower game-based ADMM for big data processing <b>2017</b> ,		4
114	Hybrid MAC Protocol for Full Duplex Wi-Fi Networks <b>2017</b> ,		1
113	User Pairing for Downlink Non-Orthogonal Multiple Access Networks Using Matching Algorithm. <i>IEEE Transactions on Communications</i> , <b>2017</b> , 65, 5319-5332	6.9	115
112	Device-to-Device Communications over Unlicensed Spectrum <b>2017</b> , 1-30		2
111	Device-to-Device Communications over Unlicensed Spectrum <b>2017</b> , 1-30		
110	Radio resource allocation for uplink sparse code multiple access (SCMA) networks using matching game <b>2016</b> ,		29

109	Game theoretic approaches for wireless proactive caching <b>2016</b> , 54, 37-43		28
108	Caching as a Service: Small-Cell Caching Mechanism Design for Service Providers. <i>IEEE Transactions on Wireless Communications</i> , <b>2016</b> , 15, 6992-7004	9.6	26
107	Resource allocation in wireless powered relay networks through a nash bargaining game <b>2016</b> ,		3
106	Radio resource allocation for non-orthogonal multiple access (NOMA) relay network using matching game <b>2016</b> ,		21
105	Radio resource management for cloud-RAN networks with computing capability constraints <b>2016</b> ,		8
104	Matching Theory: Applications in wireless communications. <i>IEEE Signal Processing Magazine</i> , <b>2016</b> , 33, 103-122	9.4	98
103	Cross-Layer Protocol Design for CSMA/CD in Full-Duplex WiFi Networks. <i>IEEE Communications Letters</i> , <b>2016</b> , 20, 792-795	3.8	21
102	Zero-Determinant Strategy for Resource Sharing in Wireless Cooperations. <i>IEEE Transactions on Wireless Communications</i> , <b>2016</b> , 15, 2179-2192	9.6	18
101	Interference Improves PHY Security for Cognitive Radio Networks. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2016</b> , 11, 609-620	8	23
100	Balanced Interest Distribution in Smart Grid: A Nash Bargaining Demand Side Management Scheme <b>2016</b> ,		3
99	Exploiting the Stable Fixture Matching Game for Content Sharing in D2D-Based LTE-V2X Communications <b>2016</b> ,		12
98	Complementary Investment of Infrastructure and Service Providers in Wireless Network Virtualization <b>2016</b> ,		4
97	Fairness-Throughput Tradeoff in Full-Duplex WiFi Networks <b>2016</b> ,		3
96	LTE-Unclicensed Coexistence Mechanism: A Matching Game Framework. <i>IEEE Wireless Communications</i> , <b>2016</b> , 23, 54-60	13.4	31
95	Source and physical-layer network coding for correlated two-way relaying. <i>IET Communications</i> , <b>2016</b> , 10, 502-507	1.3	5
94	Radio Resource Allocation for Device-to-Device Underlay Communication Using Hypergraph Theory. <i>IEEE Transactions on Wireless Communications</i> , <b>2016</b> , 1-1	9.6	48
93	Joint User Pairing, Subchannel, and Power Allocation in Full-Duplex Multi-User OFDMA Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2016</b> , 15, 8260-8272	9.6	44
92	Hypergraph based resource allocation for cross-cell device-to-device communications <b>2016</b> ,		4

91	Design and implementation of device-to-device software-defined networks <b>2016</b> ,		10
90	Sub-Channel Assignment, Power Allocation, and User Scheduling for Non-Orthogonal Multiple Access Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2016</b> , 15, 7686-7698	9.6	262
89	A novel caching mechanism for Internet of Things (IoT) sensing service with energy harvesting <b>2016</b> ,		34
88	Compressed Relaying for Two-Way Relay Networks With Correlated Sources. <i>IEEE Wireless Communications Letters</i> , <b>2015</b> , 4, 30-33	5.9	3
87	Dynamic femtocaching for mobile users <b>2015</b> ,		5
86	Contract-Based Incentive Mechanisms for Device-to-Device Communications in Cellular Networks. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2015</b> , 33, 2144-2155	14.2	166
85	Efficient Full-Duplex Relaying With Joint Antenna-Relay Selection and Self-Interference Suppression. <i>IEEE Transactions on Wireless Communications</i> , <b>2015</b> , 14, 3991-4005	9.6	61
84	Roadside-unit caching in vehicular ad hoc networks for efficient popular content delivery <b>2015</b> ,		2
83	Resource allocation in full-duplex communications for future wireless networks. <i>IEEE Wireless Communications</i> , <b>2015</b> , 22, 88-96	13.4	47
82	Mode selection, user pairing, subcarrier allocation and power control in full-duplex OFDMA HetNets <b>2015</b> ,		11
81	Radio Resource Allocation for Downlink Non-Orthogonal Multiple Access (NOMA) Networks Using Matching Theory <b>2015</b> ,		46
80	Topology-Aware Incentive Mechanism for Cooperative Relay Networks <b>2015</b> ,		3
79	A Hierarchical Game Approach for Multi-Operator Spectrum Sharing in LTE Unlicensed <b>2015</b> ,		36
78	Advances in Device-to-Device Communications and Networks. <i>International Journal of Antennas and Propagation</i> , <b>2015</b> , 2015, 1-2	1.2	1
77	Simultaneous Bidirectional Link Selection in Full Duplex MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2015</b> , 14, 4052-4062	9.6	16
76	Full-Duplex MAC Protocol Design and Analysis. <i>IEEE Communications Letters</i> , <b>2015</b> , 19, 1185-1188	3.8	62
75	Energy-Efficient Resource Allocation for Device-to-Device Underlay Communication. <i>IEEE Transactions on Wireless Communications</i> , <b>2015</b> , 14, 2082-2092	9.6	137
74	Financing contract with adverse selection and moral hazard for spectrum trading in cognitive radio networks <b>2015</b> ,		8

73	Cross-Layer Protocol Design for Distributed Full-Duplex Network <b>2015</b> ,		3
72	Small-cell caching mechanism for multi-service providers <b>2015</b> ,		5
71	Social Data Offloading in D2D-Enhanced Cellular Networks by Network Formation Games. <i>IEEE Transactions on Wireless Communications</i> , <b>2015</b> , 14, 7004-7015	9.6	60
70	Joint spectrum access and power allocation in full-duplex cognitive cellular networks <b>2015</b> ,		13
69	Exploiting Student-Project Allocation Matching for Spectrum Sharing in LTE-Unlicensed <b>2015</b> ,		32
68	Device-to-Device Load Balancing for Cellular Networks <b>2015</b> ,		8
67	Wireless Device-to-Device Communications and Networks <b>2015</b> ,		79
66	Weighted Bidirectional Relay Selection for Outdated Channel State Information. <i>IEEE Transactions on Communications</i> , <b>2014</b> , 62, 500-509	6.9	7
65	Transmit-Receive Antenna Pair Selection in Full Duplex Systems. <i>IEEE Wireless Communications Letters</i> , <b>2014</b> , 3, 34-37	5.9	36
64	Coalitional Games with Overlapping Coalitions for Interference Management in Small Cell Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2014</b> , 13, 2659-2669	9.6	80
63	Radio resource allocation for physical-layer security in D2D underlay communications <b>2014</b> ,		44
62	Radio resource allocation for full-duplex OFDMA networks using matching theory <b>2014</b> ,		30
61	Tens of Gigabits Wireless Communications Over E-Band LoS MIMO Channels With Uniform Linear Antenna Arrays. <i>IEEE Transactions on Wireless Communications</i> , <b>2014</b> , 13, 3791-3805	9.6	29
60	Selective combining for hybrid cooperative networks. <i>IET Communications</i> , <b>2014</b> , 8, 471-482	1.3	9
59	Incentive Mechanism for Demand Side Management in Smart Grid Using Auction. <i>IEEE Transactions on Smart Grid</i> , <b>2014</b> , 5, 1379-1388	10.7	126
58	Distributed Cooperative Sensing in Cognitive Radio Networks: An Overlapping Coalition Formation Approach. <i>IEEE Transactions on Communications</i> , <b>2014</b> , 62, 3144-3160	6.9	33
57	Radio Resource Allocation for Downlink Non-Orthogonal Multiple Access (NOMA) Networks Using Matching Theory <b>2014</b> ,		3
56	Exploiting Student-Project Allocation Matching for Spectrum Sharing in LTE-Unlicensed <b>2014</b> ,		1

55	Efficient resource optimization for heterogeneous smart-building networks <b>2014</b> ,		1
54	Zero-determinant strategy for power control of small cell network <b>2014</b> ,		19
53	Zero-determinant strategy in cheating management of wireless cooperation <b>2014</b> ,		4
52	SDN based uniform network architecture for future wireless networks <b>2014</b> ,		7
51	Joint relay and antenna selection for full-duplex AF relay networks <b>2014</b> ,		13
50	Joint transmit and receive antennas selection for full duplex MIMO systems <b>2014</b> ,		4
49	Efficient resource allocation for mobile social networks in D2D communication underlying cellular networks <b>2014</b> ,		24
48	Overlapping coalition formation games for cooperative interference management in small cell networks <b>2013</b> ,		11
47	Cell selection in two-tier femtocell networks with open/closed access using evolutionary game <b>2013</b> ,		8
46	Capacity Analysis of Bidirectional AF Relay Selection with Imperfect Channel State Information. <i>IEEE Wireless Communications Letters</i> , <b>2013</b> , 2, 255-258	5.9	9
45	Truthful Mechanisms for Secure Communication in Wireless Cooperative System. <i>IEEE Transactions on Wireless Communications</i> , <b>2013</b> , 12, 4236-4245	9.6	27
44	Joint scheduling and resource allocation for device-to-device underlay communication <b>2013</b> ,		30
43	Efficiency Resource Allocation for Device-to-Device Underlay Communication Systems: A Reverse Iterative Combinatorial Auction Based Approach. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2013</b> , 31, 348-358	14.2	352
42	Overlapping coalitional games for collaborative sensing in cognitive radio networks <b>2013</b> ,		20
41	Signal Detection for Differential Bidirectional Relaying with Analog Network Coding under Imperfect Synchronisation. <i>IEEE Communications Letters</i> , <b>2013</b> , 17, 1132-1135	3.8	4
40	Bad Data Injection Attack and Defense in Electricity Market Using Game Theory Study. <i>IEEE Transactions on Smart Grid</i> , <b>2013</b> , 4, 160-169	10.7	124
39	Graph-based resource allocation for D2D communications underlying cellular networks <b>2013</b> ,		20
38	Distributed resource allocation for device-to-device communications underlying cellular networks <b>2013</b> ,		58

37	Social network enhanced device-to-device communication underlying cellular networks <b>2013</b> ,		17
36	Dynamic Popular Content Distribution in Vehicular Networks using Coalition Formation Games. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2013</b> , 31, 538-547	14.2	74
35	Interference Alignment With Differential Feedback. <i>IEEE Transactions on Vehicular Technology</i> , <b>2012</b> , 61, 2878-2883	6.8	13
34	Non-Cooperative Feedback-Rate Control Game for Channel State Information in Wireless Networks. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2012</b> , 30, 188-197	14.2	27
33	On the Minimum Differential Feedback for Time-Correlated MIMO Rayleigh Block-Fading Channels. <i>IEEE Transactions on Communications</i> , <b>2012</b> , 60, 411-420	6.9	13
32	Performance Analysis of Hybrid Relay Selection in Cooperative Wireless Systems. <i>IEEE Transactions on Communications</i> , <b>2012</b> , 60, 779-788	6.9	50
31	Power Allocation for Two-Way Relay System Based on Sequential Second Price Auction. <i>Wireless Personal Communications</i> , <b>2012</b> , 67, 47-62	1.9	12
30	Adaptive modulation and coding for two-way amplify-and-forward relay networks <b>2012</b> ,		2
29	Energy-efficient radio resource and power allocation for device-to-device communication underlying cellular networks <b>2012</b> ,		48
28	A Distributed Differential Space-Time Coding Scheme With Analog Network Coding in Two-Way Relay Networks. <i>IEEE Transactions on Signal Processing</i> , <b>2012</b> , 60, 4998-5004	4.8	17
27	Joint Relay and Jammer Selection for Secure Two-Way Relay Networks. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2012</b> , 7, 310-320	8	203
26	Collaborative data dissemination in cognitive VANETs with sensing-throughput tradeoff <b>2012</b> ,		4
25	Resource allocation using a reverse iterative combinatorial auction for device-to-device underlay cellular networks <b>2012</b> ,		90
24	Interference-aware resource allocation for device-to-device communications as an underlay using sequential second price auction <b>2012</b> ,		111
23	Joint power control and subchannel allocation for OFDMA femtocell networks using distributed auction game <b>2012</b> ,		4
22	Power allocation using Vickrey auction and sequential first-price auction games for physical layer security in cognitive relay networks <b>2012</b> ,		8
21	Superimposed Training-Based Channel Estimation for MIMO Relay Networks. <i>International Journal of Antennas and Propagation</i> , <b>2012</b> , 2012, 1-11	1.2	2
20	Attack against electricity market-attacker and defender gaming <b>2012</b> ,		1



19	Effect of stealthy bad data injection on network congestion in market based power system <b>2012</b> ,		24
18	Joint Relay and Jammer Selection for Secure Decode-and-Forward Two-Way Relay Communications <b>2011</b> ,		4
17	Improve secure communications in cognitive two-way relay networks using sequential second price auction <b>2011</b> ,		6
16	Relay Selection for Two-Way Relaying With Amplify-and-Forward Protocols. <i>IEEE Transactions on Vehicular Technology</i> , <b>2011</b> , 60, 1954-1959	6.8	141
15	Satellite-Based Spectrum Sensing for Dynamic Spectrum Sharing in Ground-Located CRNs. <i>Wireless Personal Communications</i> , <b>2011</b> , 57, 105-117	1.9	4
14	Symbol Error Rate Analysis and Power Allocation for Adaptive Relay Selection Schemes. <i>Wireless Personal Communications</i> , <b>2011</b> , 56, 457-467	1.9	4
13	Emerging techniques for wireless vehicular communications. <i>Wireless Communications and Mobile Computing</i> , <b>2011</b> , 11, 783-786	1.9	1
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11	Hybrid forward scheme with generalized selective combining <b>2011</b> ,		1
10	A feedback rate control game using sequential second price auction for channel state information and intercell interference in wireless networks <b>2011</b> ,		1
9	Distributed Coalition Formation of Relay and Friendly Jammers for Secure Cooperative Networks <b>2011</b> ,		17
8	Improve physical layer security in cooperative wireless network using distributed auction games <b>2011</b> ,		13
7	Joint Relay and Jammer Selection for Secure Two-Way Relay Networks <b>2011</b> ,		17
6	Evolutionary channel state information feedback control for interference alignment <b>2011</b> ,		1
5	On the Minimum Differential Feedback for Time-Correlated MIMO Rayleigh Block-Fading Channels <b>2010</b> ,		2
4	Physical Layer Security for Two Way Relay Communications with Friendly Jammers <b>2010</b> ,		44
3	Differential Modulation for Bidirectional Relaying With Analog Network Coding. <i>IEEE Transactions on Signal Processing</i> , <b>2010</b> , 58, 3933-3938	4.8	64
2	QoS-aware packet forwarding in MIMO sensor networks: a cross-layer approach. <i>Wireless Communications and Mobile Computing</i> , <b>2009</b> , 10, n/a-n/a	1.9	1

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