Yong Ren

List of Publications by Year in Descending Order

153 papers	**3,980** citations	**29** h-index	**60** g-index
190 ext. papers	**4,985** ext. citations	**6.3** avg, IF	**6.13** L-index

#	Paper	IF	Citations
153	Age of Information in Energy Harvesting Aided Massive Multiple Access Networks. *IEEE Journal on Selected Areas in Communications*, **2022**, 1-1	14.2	36
152	Edge Intelligence for Mission-Critical 6G Services in Space-Air-Ground Integrated Networks. *IEEE Network*, **2022**, 1-9	11.4	7
151	Research on UAV Fusion Tracking and Identification Technology in Complex Environment. *Lecture Notes in Electrical Engineering*, **2022**, 2854-2867	0.2	
150	SDN-Based Resource Allocation in Edge and Cloud Computing Systems: An Evolutionary Stackelberg Differential Game Approach. *IEEE/ACM Transactions on Networking*, **2022**, 1-16	3.8	10
149	Average Peak Age of Information in Underwater Information Collection with Sleep-scheduling. *IEEE Transactions on Vehicular Technology*, **2022**, 1-1	6.8	7
148	Multi-Agent Reinforcement Learning Aided Intelligent UAV Swarm for Target Tracking. *IEEE Transactions on Vehicular Technology*, **2021**, 1-1	6.8	10
147	Heterogeneous Multi-AUV Aided Green Internet of Underwater Things **2021**,		2
146	Multi-UAV Cooperative Target Tracking Based on Swarm Intelligence **2021**,		2
145	Machine-Learning-Aided Mission-Critical Internet of Underwater Things. *IEEE Network*, **2021**, 35, 160-166	11.4	4
144	MagicNet: The Maritime Giant Cellular Network. *IEEE Communications Magazine*, **2021**, 59, 117-123	9.1	17
143	AoI-Inspired Collaborative Information Collection for AUV-Assisted Internet of Underwater Things. *IEEE Internet of Things Journal*, **2021**, 8, 14559-14571	10.7	27
142	Convergence of broadband and broadcast/multicast in maritime information networks. *Tsinghua Science and Technology*, **2021**, 26, 592-607	3.4	11
141	Stochastic Optimization Aided Energy-Efficient Information Collection in Internet of Underwater Things Networks. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	32
140	On Solving Link-a-Pix Picture Puzzles. *IEEE Transactions on Games*, **2020**, 1-1	1.2	
139	. *IEEE Internet of Things Journal*, **2020**, 7, 9870-9883	10.7	25
138	. *IEEE Internet of Things Journal*, **2020**, 7, 7097-7111	10.7	92
137	QLACO: Q-learning Aided Ant Colony Routing Protocol for Underwater Acoustic Sensor Networks **2020**,		7

136	Thirty Years of Machine Learning: The Road to Pareto-Optimal Wireless Networks. *IEEE Communications Surveys and Tutorials*, **2020**, 22, 1472-1514	37.1	241
135	Contract Based Information Collection in Underwater Acoustic Sensor Networks **2020**,		3
134	Joint Multicast Beamforming and Relay Design for Maritime Communication Systems. *IEEE Transactions on Green Communications and Networking*, **2020**, 4, 139-151	4	11
133	Distributed Q-Learning Aided Heterogeneous Network Association for Energy-Efficient IIoT. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 2756-2764	11.9	59
132	Multicast Beamforming Optimization in Cloud-Based Heterogeneous Terrestrial and Satellite Networks. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 1766-1776	6.8	12
131	Grasping Marine Products With Hybrid-Driven Underwater Vehicle-Manipulator System. *IEEE Transactions on Automation Science and Engineering*, **2020**, 1-12	4.9	11
130	A Hierarchical Information Acquisition System for AUV Assisted Internet of Underwater Things. *IEEE Access*, **2020**, 8, 176089-176100	3.5	8
129	. *IEEE Vehicular Technology Magazine*, **2020**, 15, 122-134	9.9	76
128	A User Association Policy for UAV-aided Time-varying Vehicular Networks with MEC **2020**,		1
127	VoI Based Information Collection for AUV Assisted Underwater Acoustic Sensor Networks **2020**,		2
126	Performance Analysis and Optimization for V2V-assisted UAV Communications in Vehicular Networks **2020**,		2
125	Auction-Based Data Transaction in Mobile Networks: Data Allocation Design and Performance Analysis. *IEEE Transactions on Mobile Computing*, **2020**, 19, 1040-1055	4.6	11
124	Colonel Blotto Games in Network Systems: Models, Strategies, and Applications. *IEEE Transactions on Network Science and Engineering*, **2020**, 7, 637-649	4.9	9
123	Second-Price Auction Based Cognitive Traffic Offloading in Heterogeneous Networks **2019**,		1
122	Double Auction Mechanism Design for Video Caching in Heterogeneous Ultra-Dense Networks. *IEEE Transactions on Wireless Communications*, **2019**, 18, 1669-1683	9.6	21
121	Robust Beamforming for Multibeam Satellite Communication in the Face of Phase Perturbations. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 3043-3047	6.8	14
120	Energy-Efficient Computation Offloading for Secure UAV-Edge-Computing Systems. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 6074-6087	6.8	116
119	Resource Allocation for Multi-UAV Aided IoT NOMA Uplink Transmission Systems. *IEEE Internet of Things Journal*, **2019**, 6, 7025-7037	10.7	90

118	Network Association in Machine-Learning Aided Cognitive Radar and Communication Co-Design. *IEEE Journal on Selected Areas in Communications*, **2019**, 37, 2322-2336	14.2	10
117	Satellite Image Prediction Relying on GAN and LSTM Neural Networks **2019**,		12
116	Distributed Hierarchical Information Acquisition Systems Based on AUV Enabled Sensor Networks **2019**,		7
115	The Transmit-Energy vs Computation-Delay Trade-Off in Gateway-Selection for Heterogenous Cloud Aided Multi-UAV Systems. *IEEE Transactions on Communications*, **2019**, 67, 3026-3039	6.9	24
114	Stackelberg Differential Game Based Resource Sharing in Hierarchical Fog-Cloud Computing **2019**,		8
113	Peer Prediction-Based Trustworthiness Evaluation and Trustworthy Service Rating in Social Networks. *IEEE Transactions on Information Forensics and Security*, **2019**, 14, 1582-1594	8	7
112	Big Data Driven Oriented Graph Theory Aided tagSNPs Selection for Genetic Precision Therapy. *IEEE Access*, **2019**, 7, 3746-3754	3.5	
111	Joint UAV Hovering Altitude and Power Control for Space-Air-Ground IoT Networks. *IEEE Internet of Things Journal*, **2019**, 6, 1741-1753	10.7	137
110	Contract Mechanism and Performance Analysis for Data Transaction in Mobile Social Networks. *IEEE Transactions on Network Science and Engineering*, **2019**, 6, 103-115	4.9	59
109	User Participation in Collaborative Filtering-Based Recommendation Systems: A Game Theoretic Approach. *IEEE Transactions on Cybernetics*, **2019**, 49, 1339-1352	10.2	21
108	Stability of Cloud-Based UAV Systems Supporting Big Data Acquisition and Processing. *IEEE Transactions on Cloud Computing*, **2019**, 7, 866-877	3.3	25
107	Internet of Vehicles: Sensing-Aided Transportation Information Collection and Diffusion. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 3813-3825	6.8	102
106	Temporal Centrality-Balanced Traffic Management for Space Satellite Networks. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 4427-4439	6.8	25
105	Social Learning Based Inference for Crowdsensing in Mobile Social Networks. *IEEE Transactions on Mobile Computing*, **2018**, 17, 1966-1979	4.6	13
104	Secure Satellite-Terrestrial Transmission Over Incumbent Terrestrial Networks via Cooperative Beamforming. *IEEE Journal on Selected Areas in Communications*, **2018**, 36, 1367-1382	14.2	51
103	Big Data Aided Vehicular Network Feature Analysis and Mobility Models Design. *Mobile Networks and Applications*, **2018**, 23, 1487-1495	2.9	6
102	Community-Structured Evolutionary Game for Privacy Protection in Social Networks. *IEEE Transactions on Information Forensics and Security*, **2018**, 13, 574-589	8	46
101	Check in or Not? A Stochastic Game for Privacy Preserving in Point-of-Interest Recommendation System. *IEEE Internet of Things Journal*, **2018**, 5, 4178-4190	10.7	8

100	Network Association for Cognitive Communication and Radar Co-Systems: A POMDP Formulation **2018**,		1
99	A Sink Node Assisted Lightweight Intrusion Detection Mechanism for WBAN **2018**,		2
98	Intrusion detection for wireless sensor networks: A multi-criteria game approach **2018**,		4
97	Networked Data Transaction in Mobile Networks: A Prediction-based Approach Using Auction **2018**,		3
96	Timing Synchronization and Ranging in Networked UAV-Aided OFDM Systems. *Journal of Communications and Information Networks*, **2018**, 3, 45-54		7
95	Auction Design and Analysis for SDN-Based Traffic Offloading in Hybrid Satellite-Terrestrial Networks. *IEEE Journal on Selected Areas in Communications*, **2018**, 36, 2202-2217	14.2	77
94	Power Allocation for Multi-Satellite System Integrated with Precoding and User Scheduling **2018**,		1
93	Cognitive Data Allocation for Auction-based Data Transaction in Mobile Networks **2018**,		5
92	Advanced Wireless Communications and Mobile Computing Technologies for the Internet of Things. *Wireless Communications and Mobile Computing*, **2018**, 2018, 1-2	1.9	2
91	. *IEEE Transactions on Aerospace and Electronic Systems*, **2017**, 53, 598-618	3.7	59
90	Information Credibility Modeling in Cooperative Networks: Equilibrium and Mechanism Design. *IEEE Journal on Selected Areas in Communications*, **2017**, 35, 432-448	14.2	14
89	Content Aided Clustering and Cluster Head Selection Algorithms in Vehicular Networks **2017**,		8
88	Cooperative Device-to-Device Communications: Social Networking Perspectives. *IEEE Network*, **2017**, 31, 38-44	11.4	37
87	Machine Learning Paradigms for Next-Generation Wireless Networks. *IEEE Wireless Communications*, **2017**, 24, 98-105	13.4	580
86	Taking Drones to the Next Level: Cooperative Distributed Unmanned-Aerial-Vehicular Networks for Small and Mini Drones. *IEEE Vehicular Technology Magazine*, **2017**, 12, 73-82	9.9	248
85	Big data driven information diffusion analysis and control in online social networks **2017**,		4
84	Asymmetric normalization aided information diffusion for socially-aware mobile networks **2017**,		1
83	Contract Design for Traffic Offloading and Resource Allocation in Heterogeneous Ultra-Dense Networks. *IEEE Journal on Selected Areas in Communications*, **2017**, 35, 2457-2467	14.2	87

82	Optimal Satellite Scheduling with Critical Node Analysis **2017**,		1
81	Dynamic Privacy Pricing: A Multi-Armed Bandit Approach With Time-Variant Rewards. *IEEE Transactions on Information Forensics and Security*, **2017**, 12, 271-285	8	24
80	Privacy-Accuracy Trade-Off in Differentially-Private Distributed Classification: A Game Theoretical Approach. *IEEE Transactions on Big Data*, **2017**, 1-1	3.2	10
79	Data Transaction Modeling in Mobile Networks: Contract Mechanism and Performance Analysis **2017**,		10
78	Hardware-in-the-loop simulation system for space information networks. *Journal of Communications and Information Networks*, **2017**, 2, 131-141		5
77	A novel cardiac arrhythmia detection method relying on improved DTW method **2017**,		3
76	Big Data Driven Similarity Based U-Model for Online Social Networks **2017**,		3
75	Privacy Preserving Distributed Classification: A Satisfaction Equilibrium Approach **2017**,		2
74	Reliability of Cloud Controlled Multi-UAV Systems for On-Demand Services **2017**,		8
73	Cooperative Spectrum Sharing in D2D-Enabled Cellular Networks. *IEEE Transactions on Communications*, **2016**, 1-1	6.9	15
72	Energy Efficient D2D Communications: A Perspective of Mechanism Design. *IEEE Transactions on Wireless Communications*, **2016**, 15, 7272-7285	9.6	41
71	On the outage probability of information sharing in cognitive vehicular networks **2016**,		9
70	The Value Strength Aided Information Diffusion in Socially-Aware Mobile Networks. *IEEE Access*, **2016**, 4, 3907-3919	3.5	27
69	Access Strategy in Super WiFi Network Powered by Solar Energy Harvesting: A POMDP Method **2016**,		1
68	Complex network theoretical analysis on information dissemination over vehicular networks **2016**,		13
67	Network Association Strategies for an Energy Harvesting Aided Super-WiFi Network Relying on Measured Solar Activity. *IEEE Journal on Selected Areas in Communications*, **2016**, 34, 3785-3797	14.2	43
66	Time cumulative complexity modeling and analysis for space-based networks **2016**,		2
65	Secure Collaborative Spectrum Sensing: A Peer-Prediction Method. *IEEE Transactions on Communications*, **2016**, 1-1	6.9	6

64	Optimal protection resource allocation: A perspective of network science **2016**,		1
63	Privacy protection: A community-structured evolutionary game approach **2016**,		5
62	The value strength aided information diffusion in online social networks **2016**,		9
61	Aggressive congestion control mechanism for space systems. *IEEE Aerospace and Electronic Systems Magazine*, **2016**, 31, 28-33	2.4	17
60	. *IEEE Wireless Communications*, **2016**, 23, 136-144	13.4	56
59	Microblog Dimensionality Reduction—A Deep Learning Approach. *IEEE Transactions on Knowledge and Data Engineering*, **2016**, 28, 1779-1789	4.2	15
58	A Framework for Categorizing and Applying Privacy-Preservation Techniques in Big Data Mining. *Computer*, **2016**, 49, 54-62	1.6	32
57	User Association in Heterogeneous Networks: A Social Interaction Approach. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 9982-9993	6.8	18
56	. *IEEE Transactions on Multimedia*, **2016**, 18, 820-830	6.6	50
55	Trustable service rating in social networks: A peer prediction method **2016**,		6
54	Mobile Data Transactions in Device-to-Device Communication Networks: Pricing and Auction. *IEEE Wireless Communications Letters*, **2016**, 5, 300-303	5.9	28
53	Access points selection in super WiFi network powered by solar energy harvesting **2016**,		13
52	Cooperative WiFi management: Nash bargaining solution and implementation **2016**,		3
51	Traffic prediction based resource configuration in space-based systems **2016**,		4
50	Pricing equilibrium for data redistribution market in wireless networks with matching methodology **2015**,		1
49	Game theoretic data privacy preservation: Equilibrium and pricing **2015**,		9
48	Security in space information networks **2015**, 53, 82-88		61
47	Maximizing Network Capacity with Optimal Source Selection: A Network Science Perspective. *IEEE Signal Processing Letters*, **2015**, 22, 938-942	3.2	16

46	Distributed Fault-Tolerant Topology Control in Cooperative Wireless Ad Hoc Networks. *IEEE Transactions on Parallel and Distributed Systems*, **2015**, 26, 2699-2710	3.7	19
45	Deep learning in exploring semantic relatedness for microblog dimensionality reduction **2015**,		2
44	Stability Analysis and Resource Allocation for Space-Based Multi-Access Systems **2015**,		4
43	A Distributed Gateway Selection Algorithm for UAV Networks. *IEEE Transactions on Emerging Topics in Computing*, **2015**, 3, 22-33	4.1	34
42	Information Security in Big Data: Privacy and Data Mining. *IEEE Access*, **2014**, 2, 1149-1176	3.5	313
41	Energy-efficient non-cooperative cognitive radio networks: micro, meso, and macro views **2014**, 52, 14-20		71
40	Node Energy Consumption Analysis in Wireless Sensor Networks **2014**,		8
39	User participation game in collaborative filtering **2014**,		8
38	Joint video adaptation and erasure code for video broadcast in wireless networks. *Science China Information Sciences*, **2013**, 56, 1-15	3.4	
37	. *IEEE Journal on Selected Areas in Communications*, **2013**, 31, 406-416	14.2	131
36	A topology control algorithm based on D-region fault tolerance. *Science China Information Sciences*, **2013**, 56, 1-9	3.4	2
35	Adaptive Channel Sensing for Asynchronous Cooperative Spectrum Sensing Scheme. *IEICE Transactions on Communications*, **2013**, E96.B, 918-922	0.5	5
34	Topology control algorithm using fault-tolerant 1-spanner for wireless ad hoc networks. *Tsinghua Science and Technology*, **2012**, 17, 186-193	3.4	1
33	Graph-Based AJAX Crawl: Mining Data from Rich Internet Applications **2012**,		7
32	A DHT-based fast handover management scheme for mobile identifier/locator separation networks. *Science China Information Sciences*, **2012**, 56, 1	3.4	1
31	Optimization-Based Design of Wireless Link Scheduling With Physical Interference Model. *IEEE Transactions on Vehicular Technology*, **2012**, 61, 3705-3717	6.8	1
30	Estimation of the variances of TCP/RED using stochastic differential equation. *Asian Journal of Control*, **2012**, 14, 454-465	1.7	
29	Probabilistic Neural Network for RSS-Based Collaborative Localization **2012**,		4

#	Publication		
28	Analysis of interference in cognitive radio networks with unknown primary behavior **2012**,		7
27	Atmospheric pressure-aware seamless 3-D localization and navigation for mobile Internet devices. *Tsinghua Science and Technology*, **2012**, 17, 172-178	3.4	8
26	File-Sharing Preference in a Peer-to-Peer Network. *IEEE Circuits and Systems Magazine*, **2011**, 11, 43-51	3.2	2
25	uSink: Smartphone-based moible sink for wireless sensor networks **2011**,		6
24	Sequence-based localization algorithm with improved correlation metric and dynamic centroid. *Science China Information Sciences*, **2011**, 54, 2349-2358	3.4	9
23	A DHT and MDP-based mobility management scheme for large-scale mobile internet **2011**,		12
22	Analysis of Optimal Query, Fairness and Replication for DHT-based Mobility Management **2011**,		2
21	Achieving Fairness without Loss of Performance in Selection Cooperation of Wireless Networks. *IEICE Transactions on Communications*, **2011**, E94-B, 2406-2410	0.5	0
20	Thingsbook: Merging Things into SNS Using IoT **2011**, 741-747		
19	uSD: An SD-Based Mobile Gateway to Wireless Sensor Network **2010**,		3
18	On Searching Available Channels with Asynchronous MAC-Layer Spectrum Sensing. *IEICE Transactions on Communications*, **2010**, E93-B, 2113-2125	0.5	8
17	Analysis on deployment parameters of secondary users in cognitive radio networks **2010**,		1
16	Effective Management of Secondary User's Density in Cognitive Radio Networks. *IEICE Transactions on Communications*, **2010**, E93-B, 2443-2447	0.5	4
15	Link Scheduling with Physical Interference Model for Throughput Improvement in Wireless Multi-hop Networks **2009**,		1
14	Joint admission control algorithm in access network. *Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities*, **2008**, 3, 150-154		
13	Spatial and Temporal Analysis of Probe Vehicle-based Sampling for Real-time Traffic Information System. *Intelligent Vehicles Symposium, 2009 IEEE*, **2007**,		15
12	A Novel Real-time Traffic Information System Based on Wireless Mesh Networks **2007**,		12
11	New theoretical framework for OFDM/CDMA systems with peak-limited nonlinearities. *Science in China Series F: Information Sciences*, **2007**, 50, 783-792		

10	Analysis of Time- and Space-domain Sampling for Probe Vehicle-based Traffic Information System **2007**,		4
9	Intra-superframe power management for IEEE 802.15.3 WPAN. *IEEE Communications Letters*, **2005**, 9, 228-230	3.8	12
8	Intra-superframe power management for IEEE 802.15.3 WPAN. *IEEE Communications Letters*, **2005**, 9, 228-230	3.8	
7	Comparison of IEEE 802.11e and IEEE 802.15.3 MAC **2004**,		2
6	Performance Analysis in General Cyclic ADCs. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2003**, 13, 2369-2376	2	1
5	Energy efficient transmission protocol for UWB WPAN		3
4	WDRLS: a wavelet-based on-line predictor for network traffic		1
3	Stability analysis on active queue management algorithms in routers		2
2	A new synchronization algorithm for OFDM systems in multipath environment		2
1	Forwarding the balance between absolute and relative: a new differentiated services model for adaptive traffic		2