

# Rongbo Zhu

## List of Publications by Year in descending order

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68  
papers

1,024  
citations

394421

19  
h-index

477307

29  
g-index

70  
all docs

70  
docs citations

70  
times ranked

1151  
citing authors

#	ARTICLE	IF	CITATIONS
1	Federated Deep Reinforcement Learning-Based Spectrum Access Algorithm With Warranty Contract in Intelligent Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 1178-1190.	8.0	2
2	A Blockchain-Based Two-Stage Secure Spectrum Intelligent Sensing and Sharing Auction Mechanism. IEEE Transactions on Industrial Informatics, 2022, 18, 2773-2783.	11.3	23
3	Fabric Defect Segmentation System Based on a Lightweight GAN for Industrial Internet of Things. Wireless Communications and Mobile Computing, 2022, 2022, 1-17.	1.2	5
4	A Bitcoin Transaction Network Analytic Method for Future Blockchain Forensic Investigation. IEEE Transactions on Network Science and Engineering, 2021, 8, 1230-1241.	6.4	22
5	Efficient service discovery in mobile social networks for smart cities. Computing (Vienna/New York), 2021, 103, 183-209.	4.8	0
6	Electric Signature Detection and Analysis for Power Equipment Failure Monitoring in Smart Grid. IEEE Transactions on Industrial Informatics, 2021, 17, 3739-3750.	11.3	18
7	Congestion prediction for smart sustainable cities using IoT and machine learning approaches. Sustainable Cities and Society, 2021, 64, 102500.	10.4	88
8	IEEE Access Special Section Editorial: Human-Driven Edge Computing. IEEE Access, 2021, 9, 93948-93953.	4.2	1
9	IEEE Access Special Section Editorial: Urban Computing and Intelligence. IEEE Access, 2021, 9, 130690-130697.	4.2	0
10	Edge Sensing-Enabled Multistage Hierarchical Clustering Deredundancy Algorithm in WSNs. Wireless Communications and Mobile Computing, 2021, 2021, 1-14.	1.2	1
11	Blockchain-Based Key Management and Green Routing Scheme for Vehicular Named Data Networking. Security and Communication Networks, 2021, 2021, 1-13.	1.5	7
12	Early Warning Scheme of COVID-19 related Internet Public Opinion based on RVM-L Model. Sustainable Cities and Society, 2021, 74, 103141.	10.4	10
13	A streak detection approach for comprehensive two-dimensional gas chromatography based on image analysis. Neural Computing and Applications, 2020, 32, 649-663.	5.6	7
14	Intelligent data fusion algorithm based on hybrid delay-aware adaptive clustering in wireless sensor networks. Future Generation Computer Systems, 2020, 104, 1-14.	7.5	46
15	Storage and access optimization scheme based on correlation probabilities in the internet of vehicles. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2020, 24, 221-236.	4.2	2
16	Multi-access edge computing enabled internet of things: advances and novel applications. Neural Computing and Applications, 2020, 32, 15313-15316.	5.6	28
17	Cognitive-inspired Computing: Advances and Novel Applications. Future Generation Computer Systems, 2020, 109, 706-709.	7.5	10
18	Edge sensing data-imaging conversion scheme of load forecasting in smart grid. Sustainable Cities and Society, 2020, 62, 102363.	10.4	21

#	ARTICLE	IF	CITATIONS
19	Fog-Computing-Based Approximate Spatial Keyword Queries With Numeric Attributes in IoV. IEEE Internet of Things Journal, 2020, 7, 4304-4316.	8.7	6
20	A Cascade Learning Approach for Automated Detection of Locomotive Speed Sensor Using Imbalanced Data in ITS. IEEE Access, 2019, 7, 90851-90862.	4.2	6
21	Link Prediction Based on Deep Convolutional Neural Network. Information (Switzerland), 2019, 10, 172.	2.9	10
22	Improved Kalman filter based differentially private streaming data release in cognitive computing. Future Generation Computer Systems, 2019, 98, 541-549.	7.5	21
23	Language model-based automatic prefix abbreviation expansion method for biomedical big data analysis. Future Generation Computer Systems, 2019, 98, 238-251.	7.5	5
24	A High Efficient Approach for Power Disturbance Waveform Compression in the View of Heisenberg Uncertainty. IEEE Transactions on Industrial Informatics, 2019, 15, 2580-2591.	11.3	18
25	Electromagnetic radiation based continuous authentication in edge computing enabled internet of things. Journal of Systems Architecture, 2019, 96, 53-61.	4.3	12
26	Fog-Based Pub/Sub Index With Boolean Expressions in the Internet of Industrial Vehicles. IEEE Transactions on Industrial Informatics, 2019, 15, 1629-1642.	11.3	5
27	Intelligent augmented keyword search on spatial entities in real-life internet of vehicles. Future Generation Computer Systems, 2019, 94, 697-711.	7.5	6
28	A Differentially Private Unscented Kalman Filter for Streaming Data in IoT. IEEE Access, 2018, 6, 6487-6495.	4.2	42
29	A Monte Carlo localization method based on differential evolution optimization applied into economic forecasting in mobile wireless sensor networks. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	2.4	19
30	Efficient Spatial Keyword Query Processing in the Internet of Industrial Vehicles. Mobile Networks and Applications, 2018, 23, 864-878.	3.3	4
31	Node Location Privacy Protection Based on Differentially Private Grids in Industrial Wireless Sensor Networks. Sensors, 2018, 18, 410.	3.8	33
32	A novel distributed air index for efficient spatial query processing in road sensor networks on the air. International Journal of Communication Systems, 2017, 30, e3131.	2.5	4
33	Spatial Keyword Query Processing in the Internet of Vehicles. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 1-13.	0.3	1
34	OFDM-based Interference Alignment in Single-Antenna Cellular Wireless Networks. IEEE Transactions on Communications, 2017, , 1-1.	7.8	2
35	A Special Section in IEEE Access: Cooperative and Intelligent Sensing. IEEE Access, 2017, 5, 27824-27826.	4.2	4
36	Parameterized Spatio-Textual Publish/Subscribe in Road Sensor Networks. IEEE Access, 2017, 5, 22940-22952.	4.2	0

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37	Probabilistic CkNN Queries of Uncertain Data in Large Road Networks. IEEE Access, 2016, 4, 8900-8913.	4.2	1
38	An Optimal Cross-Layer Framework for Cognitive Radio Network Under Interference Temperature Model. IEEE Systems Journal, 2016, 10, 293-301.	4.6	30
39	Robotic Automated External Defibrillator Ambulance for Emergency Medical Service in Smart Cities. IEEE Access, 2016, 4, 268-283.	4.2	65
40	A Scheduling Algorithm for MIMO DoF Allocation in Multi-Hop Networks. IEEE Transactions on Mobile Computing, 2016, 15, 264-277.	5.8	8
41	Dynamic Spectrum Access Algorithm Based on Game Theory in Cognitive Radio Networks. Mobile Networks and Applications, 2015, 20, 817-827.	3.3	40
42	ERDT: Energy-Efficient Reliable Decision Transmission for Intelligent Cooperative Spectrum Sensing in Industrial IoT. IEEE Access, 2015, 3, 2366-2378.	4.2	72
43	An optimal scheduling framework for concurrent transmissions in wireless cognitive radio networks. Telecommunication Systems, 2015, 60, 169-177.	2.5	8
44	RFID-based mobility for seamless personal communication system in cloud computing. Telecommunication Systems, 2015, 58, 233-241.	2.5	5
45	Recent advances in interference management for wireless networks. IEEE Network, 2015, 29, 83-89.	6.9	12
46	Collaborative Wireless Sensor Networks and Applications. International Journal of Distributed Sensor Networks, 2015, 11, 352761.	2.2	7
47	Modeling the Dynamic Evolution of the Vehicular Ad Hoc Networks under the City Scenario. International Journal of Distributed Sensor Networks, 2015, 11, 524857.	2.2	4
48	Backup Routing Algorithm Based on Delay Constraint in Cognitive Radio Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 2015, 1-11.	2.2	2
49	Increasing user throughput in cellular networks with interference alignment. , 2014, , .		3
50	An energy-efficient geographic routing protocol design in vehicular ad-hoc network. Computing (Vienna/New York), 2014, 96, 119-131.	4.8	30
51	EIM: An Enforceable Incentive Mechanism for Dynamic Non-cooperative Multi-radio Channel Allocation in Wireless Mobile Networks. Wireless Personal Communications, 2014, 76, 829-851.	2.7	0
52	A novel MIMO DoF model for multi-hop networks. IEEE Network, 2014, 28, 81-85.	6.9	11
53	Home Circuit Sharing for Dynamic Wavelength Assignment in LOBS-Based Datacenter Networks. IEICE Transactions on Information and Systems, 2014, E97.D, 2660-2662.	0.7	0
54	PaperIO: A 3D Interface towards the Internet of Embedded Paper-Craft. IEICE Transactions on Information and Systems, 2014, E97.D, 2597-2605.	0.7	13

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55	Enhanced MAC protocol to support multimedia traffic in cognitive wireless mesh networks. <i>Multimedia Tools and Applications</i> , 2013, 67, 269-288.	3.9	17
56	A Review of Automated Formal Verification of Ad Hoc Routing Protocols for Wireless Sensor Networks. <i>Sensor Letters</i> , 2013, 11, 752-764.	0.4	20
57	A 3D Falling Reconstruction System Using Sensor Awareness for Ubiquitous Healthcare. <i>Sensor Letters</i> , 2013, 11, 828-835.	0.4	5
58	Sensor Deployment for Full Detection on Delay Tolerant Event in Hybrid Wireless Sensor Networks. <i>Sensor Letters</i> , 2013, 11, 900-909.	0.4	1
59	Routing Protocol Design and Performance Optimization in Cognitive Radio Networks. <i>Journal of Networks</i> , 2013, 8, .	0.4	3
60	Intelligent Collaborative Event Query Algorithm in Wireless Sensor Networks. <i>International Journal of Distributed Sensor Networks</i> , 2012, 8, 728521.	2.2	18
61	Power-Efficient Spatial Reusable Channel Assignment Scheme in WLAN Mesh Networks. <i>Mobile Networks and Applications</i> , 2012, 17, 53-63.	3.3	30
62	Intelligent rate control for supporting real-time traffic in WLAN mesh networks. <i>Journal of Network and Computer Applications</i> , 2011, 34, 1449-1458.	9.1	29
63	Adaptive Optimization-based Routing in Wireless Mesh Networks. <i>Wireless Personal Communications</i> , 2011, 56, 403-415.	2.7	2
64	Energy-Aware Distributed Intelligent Data Gathering Algorithm in Wireless Sensor Networks. <i>International Journal of Distributed Sensor Networks</i> , 2011, 7, 235724.	2.2	27
65	Adaptive Packet Scheduling Scheme to Support Real-time Traffic in WLAN Mesh Networks. <i>KSII Transactions on Internet and Information Systems</i> , 2011, 5, .	0.3	17
66	Efficient Fault-Tolerant Event Query Algorithm in Distributed Wireless Sensor Networks. <i>International Journal of Distributed Sensor Networks</i> , 2010, 6, 593849.	2.2	20
67	Intelligent MAC model for traffic scheduling in IEEE 802.11e wireless LANs. <i>Applied Mathematics and Computation</i> , 2008, 205, 109-122.	2.2	13
68	Model-based admission control for IEEE 802.11e enhanced distributed channel access. <i>AEU - International Journal of Electronics and Communications</i> , 2007, 61, 388-397.	2.9	10