

Shigeng Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

1,565
citations

361413

20
h-index

345221

36
g-index

80
all docs

80
docs citations

80
times ranked

1528
citing authors

#	ARTICLE	IF	CITATIONS
1	Edge Mesh: A New Paradigm to Enable Distributed Intelligence in Internet of Things. IEEE Access, 2017, 5, 16441-16458.	4.2	157
2	Minimizing Movement for Target Coverage and Network Connectivity in Mobile Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 1971-1983.	5.6	149
3	A Cloudâ€‘MEC Collaborative Task Offloading Scheme With Service Orchestration. IEEE Internet of Things Journal, 2020, 7, 5792-5805.	8.7	103
4	Secure localization and location verification in wireless sensor networks: a survey. Journal of Supercomputing, 2013, 64, 685-701.	3.6	74
5	Unknown Tag Identification in Large RFID Systems: An Efficient and Complete Solution. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 1775-1788.	5.6	71
6	Accurate Range-Free Localization for Anisotropic Wireless Sensor Networks. ACM Transactions on Sensor Networks, 2015, 11, 1-28.	3.6	61
7	Range-Based Localization for Sparse 3-D Sensor Networks. IEEE Internet of Things Journal, 2019, 6, 753-764.	8.7	60
8	Flexible and Time-Efficient Tag Scanning with Handheld Readers. IEEE Transactions on Mobile Computing, 2016, 15, 840-852.	5.8	50
9	PDRCNN: Precise Phishing Detection with Recurrent Convolutional Neural Networks. Security and Communication Networks, 2019, 2019, 1-15.	1.5	50
10	Big program code dissemination scheme for emergency software-define wireless sensor networks. Peer-to-Peer Networking and Applications, 2018, 11, 1038-1059.	3.9	40
11	An Energy-Aware Offloading Framework for Edge-Augmented Mobile RFID Systems. IEEE Internet of Things Journal, 2019, 6, 3994-4004.	8.7	40
12	A locality-based range-free localization algorithm for anisotropic wireless sensor networks. Telecommunication Systems, 2016, 62, 3-13.	2.5	38
13	Deterministic Detection of Cloning Attacks for Anonymous RFID Systems. IEEE Transactions on Industrial Informatics, 2015, 11, 1255-1266.	11.3	36
14	STEP: A Time-Efficient Tag Searching Protocol in Large RFID Systems. IEEE Transactions on Computers, 2015, 64, 3265-3277.	3.4	34
15	Vital Signs Monitoring with RFID: Opportunities and Challenges. IEEE Network, 2019, 33, 126-132.	6.9	34
16	Accurate Respiration Monitoring for Mobile Users With Commercial RFID Devices. IEEE Journal on Selected Areas in Communications, 2021, 39, 513-525.	14.0	34
17	Complete and fast unknown tag identification in large RFID systems. , 2012, , .		30
18	Towards Real-time Cooperative Deep Inference over the Cloud and Edge End Devices. , 2020, 4, 1-24.		28

#	ARTICLE	IF	CITATIONS
19	Energy-efficient active tag searching in large scale RFID systems. Information Sciences, 2015, 317, 143-156.	6.9	26
20	Time-Efficient Target Tags Information Collection in Large-Scale RFID Systems. IEEE Transactions on Mobile Computing, 2021, 20, 2891-2905.	5.8	26
21	When Sharing Economy Meets IoT. , 2020, 4, 1-26.		26
22	Characterizing the Capability of Vehicular Fog Computing in Large-scale Urban Environment. Mobile Networks and Applications, 2018, 23, 1050-1067.	3.3	25
23	Adaptive explicit congestion control based on bandwidth estimation for high bandwidth-delay product networks. Computer Communications, 2013, 36, 1235-1244.	5.1	20
24	Page-sharing-based virtual machine packing with multi-resource constraints to reduce network traffic in migration for clouds. Future Generation Computer Systems, 2019, 96, 462-471.	7.5	20
25	LSCDroid: Malware Detection Based on Local Sensitive API Invocation Sequences. IEEE Transactions on Reliability, 2020, 69, 174-187.	4.6	20
26	Nothing Blocks Me: Precise and Real-Time LOS/NLOS Path Recognition in RFID Systems. IEEE Internet of Things Journal, 2019, 6, 5814-5824.	8.7	19
27	Anchor supervised distance estimation in anisotropic wireless sensor networks. , 2011, , .		18
28	ReActor: Real-time and Accurate Contactless Gesture Recognition with RFID. , 2019, , .		18
29	Exploiting distribution of channel state information for accurate wireless indoor localization. Computer Communications, 2017, 114, 73-83.	5.1	17
30	Tag size profiling in multiple reader RFID systems. , 2017, , .		16
31	Key parameters decision for cloud computing: Insights from a multiple game model. Concurrency Computation Practice and Experience, 2017, 29, e4200.	2.2	14
32	Time Efficient Tag Searching in Large-Scale RFID Systems: A Compact Exclusive Validation Method. IEEE Transactions on Mobile Computing, 2022, 21, 1476-1491.	5.8	14
33	Minimizing Movement for Target Coverage in Mobile Sensor Networks. , 2012, , .		13
34	Let's work together: Fast tag identification by interference elimination for multiple RFID readers. , 2016, , .		12
35	Fast and Reliable Dynamic Tag Estimation in Large-Scale RFID Systems. IEEE Internet of Things Journal, 2021, 8, 1651-1661.	8.7	12
36	A Buffer Management Scheme Based on Message Transmission Status in Delay Tolerant Networks. , 2011, , .		10

#	ARTICLE	IF	CITATIONS
37	Leveraging content similarity among VMI files to allocate virtual machines in cloud. Future Generation Computer Systems, 2018, 79, 528-542.	7.5	10
38	RFID Localization Based on Multiple Feature Fusion. , 2018, , .		10
39	Energy-Aware Temporal Reachability Graphs for Time-Varying Mobile Opportunistic Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 9831-9844.	6.3	9
40	BridgeTaint: A Bi-Directional Dynamic Taint Tracking Method for JavaScript Bridges in Android Hybrid Applications. IEEE Transactions on Information Forensics and Security, 2019, 14, 677-692.	6.9	9
41	Detecting Adversarial Samples for Deep Learning Models: A Comparative Study. IEEE Transactions on Network Science and Engineering, 2022, 9, 231-244.	6.4	8
42	Efficient and accurate identification of missing tags for large-scale dynamic RFID systems. Journal of Systems Architecture, 2022, 124, 102394.	4.3	7
43	An energy-balanced clustering protocol based on dominating set for data gathering in wireless sensor networks. , 2012, , .		6
44	Toward Fast and Deterministic Clone Detection for Large Anonymous RFID Systems. , 2014, , .		6
45	A Novel Indoor Localization Algorithm for Efficient Mobility Management in Wireless Networks. Wireless Communications and Mobile Computing, 2018, 2018, 1-12.	1.2	6
46	Accurate human activity recognition with multi-task learning. CCF Transactions on Pervasive Computing and Interaction, 2020, 2, 288-298.	2.6	6
47	RLLL: Accurate Relative Localization of RFID Tags with Low Latency. , 2020, , .		6
48	Why queue up?. , 2020, , .		6
49	FGL_Droid: An Efficient Android Malware Detection Method Based on Hybrid Analysis. Security and Communication Networks, 2022, 2022, 1-11.	1.5	6
50	ECN-Based Congestion Probability Prediction over Hybrid Wired-Wireless Networks. International Journal of Distributed Sensor Networks, 2014, 10, 134620.	2.2	5
51	Who stole my cheese?: Verifying intactness of anonymous RFID systems. Ad Hoc Networks, 2016, 36, 111-126.	5.5	5
52	An energy-preserving spectrum access strategy in mobile cognitive radio networks. Transactions on Emerging Telecommunications Technologies, 2014, 25, 865-874.	3.9	4
53	An Exploit Kits Detection Approach Based on HTTP Message Graph. IEEE Transactions on Information Forensics and Security, 2021, 16, 3387-3400.	6.9	4
54	Time Efficient Tag Searching in Multiple Reader RFID Systems. , 2013, , .		3

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55	Securing middlebox policy enforcement in SDN. <i>Computer Networks</i> , 2021, 193, 108099.	5.1	3
56	An Adaptive Task Migration Scheduling Approach for Edge-Cloud Collaborative Inference. <i>Wireless Communications and Mobile Computing</i> , 2022, 2022, 1-12.	1.2	3
57	IoT-IE: An Information-Entropy-Based Approach to Traffic Anomaly Detection in Internet of Things. <i>Security and Communication Networks</i> , 2021, 2021, 1-13.	1.5	3
58	Clique partition based relay placement in WiMAX mesh networks. , 2012, , .		2
59	LOCK: A fast and flexible tag scanning mechanism with handheld readers. , 2014, , .		2
60	Enabling Adaptive Intelligence in Cloud-Augmented Multiple Robots Systems. , 2019, , .		2
61	Learning to Transfer Under Unknown Noisy Environments: An Universal Weakly-Supervised Domain Adaptation Method. , 2021, , .		2
62	RPAD: An Unsupervised HTTP Request Parameter Anomaly Detection Method. , 2020, , .		2
63	Real-time and Accurate RFID Tag Localization based on Multiple Feature Fusion. , 2020, , .		2
64	An optimal deployment scheme for extremely fast charging stations. <i>Peer-to-Peer Networking and Applications</i> , 2022, 15, 1486-1504.	3.9	2
65	An Explicit Congestion Control Protocol Based on Bandwidth Estimation. , 2011, , .		1
66	A data gathering algorithm based on energy-balanced connected dominating sets in wireless sensor networks. , 2013, , .		1
67	An energy-preserving spectrum access strategy in cognitive radio networks. , 2013, , .		1
68	ArPat: Accurate RFID reader positioning with mere boundary tags. , 2014, , .		1
69	An optimal algorithm for small group multicast in wireless sensor networks. <i>International Journal of Ad Hoc and Ubiquitous Computing</i> , 2018, 28, 168.	0.5	1
70	Receive Only Necessary: Efficient Tag Category Identification in Large-Scale RFID Systems. <i>IEEE Transactions on Mobile Computing</i> , 2023, 22, 1157-1169.	5.8	1
71	Accurate Indoor Localization with Multiple Feature Fusion. <i>Lecture Notes in Computer Science</i> , 2017, , 522-533.	1.3	1
72	WSAD: An Unsupervised Web Session Anomaly Detection Method. , 2020, , .		1

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73	Accurate IoT Device Identification from Merely Packet Length. , 2020, , .		1
74	More Than Scheduling: Novel and Efficient Coordination Algorithms for Multiple readers in RFID Systems. IEEE Transactions on Mobile Computing, 2022, , 1-1.	5.8	1
75	Encoding-based Range Detection in Commodity RFID Systems. , 2022, , .		1
76	Component-Based Localization for Wireless Sensor Networks Combining Angle and Distance Information. , 2013, , .		0
77	Algorithmic Methods in Wireless Sensor Network 2014. International Journal of Distributed Sensor Networks, 2015, 11, 805091.	2.2	0
78	A High Throughput Reader Scheduling Algorithm for Large RFID Systems in Smart Environments. , 2017, , .		0
79	RF-Ubia: User Biometric Information Authentication Based on RFID. Lecture Notes in Computer Science, 2021, , 135-146.	1.3	0
80	Expandable Fractional Repetition Codes for Distributed Storage Systems. , 2021, , .		0