

Xinming Zhang

List of Publications by Year in descending order

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132
papers

2,229
citations

394421

19
h-index

330143

37
g-index

133
all docs

133
docs citations

133
times ranked

1759
citing authors

#	ARTICLE	IF	CITATIONS
1	An analysis of live streaming workloads on the internet. , 2004, , .		229
2	Interference-Based Topology Control Algorithm for Delay-Constrained Mobile Ad Hoc Networks. IEEE Transactions on Mobile Computing, 2015, 14, 742-754.	5.8	196
3	Exploring the size effects of Al4C3 on the mechanical properties and thermal behaviors of Al-based composites reinforced by SiC and carbon nanotubes. Carbon, 2018, 135, 224-235.	10.3	147
4	A Street-Centric Opportunistic Routing Protocol Based on Link Correlation for Urban VANETs. IEEE Transactions on Mobile Computing, 2016, 15, 1586-1599.	5.8	101
5	A Neighbor Coverage-Based Probabilistic Rebroadcast for Reducing Routing Overhead in Mobile Ad Hoc Networks. IEEE Transactions on Mobile Computing, 2013, 12, 424-433.	5.8	87
6	Enhanced mechanical properties of aluminum based composites reinforced by chemically oxidized carbon nanotubes. Carbon, 2018, 139, 459-471.	10.3	82
7	Fast example-based surface texture synthesis via discrete optimization. Visual Computer, 2006, 22, 918-925.	3.5	68
8	A RSSI-Based DV-Hop Algorithm for Wireless Sensor Networks. , 2007, , .		57
9	A Street-Centric Routing Protocol Based on Microtopology in Vehicular Ad Hoc Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 5680-5694.	6.3	51
10	A Traffic-Light-Aware Routing Protocol Based on Street Connectivity for Urban Vehicular Ad Hoc Networks. IEEE Communications Letters, 2016, 20, 1635-1638.	4.1	50
11	Minimizing the Maximum Charging Delay of Multiple Mobile Chargers Under the Multi-Node Energy Charging Scheme. IEEE Transactions on Mobile Computing, 2021, 20, 1846-1861.	5.8	49
12	A Deep Reinforcement Learning Based D2D Relay Selection and Power Level Allocation in mmWave Vehicular Networks. IEEE Wireless Communications Letters, 2020, 9, 416-419.	5.0	40
13	A Concurrent Transmission Based Broadcast Scheme for Urban VANETs. IEEE Transactions on Mobile Computing, 2019, 18, 1-12.	5.8	38
14	An Estimated Distance-Based Routing Protocol for Mobile Ad hoc Networks. IEEE Transactions on Vehicular Technology, 2011, 60, 3473-3484.	6.3	37
15	Exploring the Dynamic Nature of Mobile Nodes for Predicting Route Lifetime in Mobile Ad Hoc Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 1567-1572.	6.3	34
16	Shortest-Latency Opportunistic Routing in Asynchronous Wireless Sensor Networks with Independent Duty-Cycling. IEEE Transactions on Mobile Computing, 2020, 19, 711-723.	5.8	32
17	A Novel Adaptively Dynamic Tuning of the Contention Window (CW)for Distributed Coordination Function in IEEE 802.11 Ad hoc Networks. , 2007, , .		30
18	Minimizing the Longest Charge Delay of Multiple Mobile Chargers for Wireless Rechargeable Sensor Networks by Charging Multiple Sensors Simultaneously. , 2019, , .		29

#	ARTICLE	IF	CITATIONS
19	A Novel Virtual Anchor Node-Based Localization Algorithm for Wireless Sensor Networks. , 2007, , .		28
20	Beyond the Watching: Understanding Viewer Interactions in Crowdsourced Live Video Broadcasting Services. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 3454-3468.	8.3	27
21	An Average Link Interference-Aware Routing Protocol for Mobile Ad Hoc Networks. , 2007, , .		25
22	Contention and Queue-Aware Routing Protocol for Mobile Ad Hoc Networks. , 2007, , .		24
23	SMashQ: spatial mashup framework for k-NN queries in time-dependent road networks. Distributed and Parallel Databases, 2013, 31, 259-287.	1.6	24
24	Fast, Efficient Broadcast Schemes Based on the Prediction of Dynamics in Vehicular Ad Hoc Networks. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 531-542.	8.0	23
25	A Selective Anchor Node Localization Algorithm for Wireless Sensor Networks. , 2007, , .		22
26	A Transmission Power Control MAC Protocol for Wireless Sensor Networks. , 2007, , .		21
27	Efficient Algorithms for Mobile Sink Aided Data Collection From Dedicated and Virtual Aggregation Nodes in Energy Harvesting Wireless Sensor Networks. IEEE Transactions on Green Communications and Networking, 2019, 3, 1058-1071.	5.5	21
28	A Cluster-Based Broadcast Scheduling Scheme for mmWave Vehicular Communication. IEEE Communications Letters, 2019, 23, 1202-1206.	4.1	21
29	TCP transmission rate control mechanism based on channel utilization and contention ratio in Ad hoc networks. IEEE Communications Letters, 2009, 13, 280-282.	4.1	20
30	An Adaptive Control Structure Based Fast Broadcast Protocol for Vehicular Ad Hoc Networks. IEEE Communications Letters, 2017, 21, 1835-1838.	4.1	20
31	Opportunistic Cooperation in Low Duty Cycle Wireless Sensor Networks. , 2010, , .		19
32	Towards Locality-Aware Meta-Learning of Tail Node Embeddings on Networks. , 2020, , .		19
33	Lifetime-Aware Leisure Degree Adaptive Routing Protocol for Mobile Ad Hoc Networks. , 2007, , .		18
34	TCP Congestion Window Adaptation Through Contention Detection in Ad Hoc Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 4578-4588.	6.3	18
35	mg2vec: Learning Relationship-Preserving Heterogeneous Graph Representations via Metagraph Embedding. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 1317-1329.	5.7	18
36	PNPL: Simplifying programming for protocol-oblivious SDN networks. Computer Networks, 2018, 147, 64-80.	5.1	17

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37	A Black-Burst Based Time Slot Acquisition Scheme for the Hybrid TDMA/CSMA Multichannel MAC in VANETs. IEEE Wireless Communications Letters, 2019, 8, 137-140.	5.0	17
38	A Spatial Mashup Service for Efficient Evaluation of Concurrent -NN Queries. IEEE Transactions on Computers, 2016, 65, 2428-2442.	3.4	15
39	Optimizing Opportunistic Routing in Asynchronous Wireless Sensor Networks. IEEE Communications Letters, 2017, 21, 2302-2305.	4.1	15
40	An Adaptive Link Quality-Based Safety Message Dissemination Scheme for Urban VANETs. IEEE Communications Letters, 2018, 22, 2104-2107.	4.1	15
41	A Public Goods Game Theory-Based Approach to Cooperation in VANETs Under a High Vehicle Density Condition. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3995-4005.	8.0	14
42	Understanding commercial 5G and its implications to (Multipath) TCP. Computer Networks, 2021, 198, 108401.	5.1	13
43	Load Balance Routing using Packet Success Rate for Mobile Ad Hoc Networks. , 2007, , .		12
44	Coverage Efficiency-Based Broadcast Protocol for Asynchronous Wireless Sensor Networks. IEEE Wireless Communications Letters, 2016, 5, 76-79.	5.0	12
45	A Realistic Spatial-Distribution-Based Connectivity-Aware Routing Protocol in Multilevel Scenarios of Urban VANETs. IEEE Communications Letters, 2018, 22, 1906-1909.	4.1	12
46	An Opportunistic Packet Forwarding for Energy-Harvesting Wireless Sensor Networks With Dynamic and Heterogeneous Duty Cycle. , 2018, 2, 1-4.		11
47	Po-Fi: Facilitating innovations on WiFi networks with an SDN approach. Computer Networks, 2021, 187, 107781.	5.1	11
48	Efficient Evaluation of k-NN Queries Using Spatial Mashups. Lecture Notes in Computer Science, 2011, , 348-366.	1.3	11
49	Longest Lifetime Path in Mobile Ad Hoc Networks. Ruan Jian Xue Bao/Journal of Software, 2006, 17, 498.	0.3	10
50	An Opportunistic Routing in Energy-Harvesting Wireless Sensor Networks With Dynamic Transmission Power. IEEE Access, 2019, 7, 180652-180660.	4.2	9
51	A Cross-Modal Learning Approach for Recognizing Human Actions. IEEE Systems Journal, 2021, 15, 2322-2330.	4.6	9
52	A Leisure Degree Adaptive Routing Protocol for Mobile Ad Hoc Network. Ruan Jian Xue Bao/Journal of Software, 2005, 16, 960.	0.3	9
53	Manipulation Planning From Demonstration Via Goal-Conditioned Prior Action Primitive Decomposition and Alignment. IEEE Robotics and Automation Letters, 2022, 7, 1387-1394.	5.1	9
54	A Joint Power Control, Link Scheduling and Rate Control Algorithm for Wireless Ad Hoc Networks. , 2007, , .		8

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55	Efficient and Reliable Abiding Geocast Based on Carrier Sets for Vehicular Ad Hoc Networks. IEEE Wireless Communications Letters, 2016, 5, 660-663.	5.0	8
56	Energy Efficient Switch-Based Packet Forwarding for Low Duty-Cycle Wireless Sensor Networks. IEEE Communications Letters, 2016, 20, 990-993.	4.1	8
57	A Cooperative Communication Scheme for Full-Duplex Simultaneous Wireless Information and Power Transfer Wireless Body Area Networks. , 2018, 2, 1-4.		8
58	A Fast and Efficient Broadcast Protocol With a Mobile Sink Node in Asynchronous Wireless Sensor Networks. IEEE Access, 2019, 7, 92813-92824.	4.2	8
59	Finding the Minimum MPR Set in OLSR Protocol with Genetic Algorithms. Ruan Jian Xue Bao/Journal of Software, 2006, 17, 932.	0.3	8
60	By example synthesis of three-dimensional porous materials. Computer Aided Geometric Design, 2017, 52-53, 285-296.	1.2	7
61	Network Coding-Based Flooding with a Mobile Sink in Low-Duty-Cycle Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2019, 18, 1857-1869.	5.8	7
62	Content to cash: Understanding and improving crowdsourced live video broadcasting services with monetary donations. Computer Networks, 2020, 178, 107281.	5.1	7
63	Adaptive Beamforming-Based Gigabit Message Dissemination for Highway VANETs. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7666-7679.	8.0	7
64	Traffic Load-Based Interference-Aware Routing Protocol for Mobile Ad Hoc Networks. Ruan Jian Xue Bao/Journal of Software, 2009, 20, 2721-2728.	0.3	7
65	A Delay Oriented Adaptive Routing Protocol for Mobile Ad hoc Networks. Ruan Jian Xue Bao/Journal of Software, 2005, 16, 1661.	0.3	7
66	An Adaptive and Distributed Clustering Scheme for Wireless Sensor Networks. , 2007, , .		6
67	Wavelength Assignment Scheme of ONUs in Hybrid TDM/WDM Fiber-Wireless Networks. , 2010, , .		6
68	Dynamic Delegation-Based Efficient Broadcast Protocol for Asynchronous Wireless Sensor Networks. IEEE Communications Letters, 2016, 20, 1195-1198.	4.1	6
69	Flooding With Network Coding Under a Schedule-Based Spanning Tree in Low-Duty-Cycle Wireless Sensor Networks. IEEE Wireless Communications Letters, 2018, 7, 270-273.	5.0	6
70	A Fast, Reliable, Opportunistic Broadcast Scheme With Mitigation of Internal Interference in VANETs. IEEE Transactions on Mobile Computing, 2023, 22, 1880-1893.	5.8	6
71	A Traffic Queue-aware MAC Protocol for Wireless Sensor Networks. , 2007, , .		5
72	A Link Reliability-Aware Route Maintenance Mechanism for Mobile Ad Hoc Networks. , 2007, , .		5

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73	An Efficient Heuristic Gossiping Mechanism in Ad Hoc Routing. , 2007, , .		5
74	Improve preemptive routing performance in mobile ad hoc networks with Cache-enabled method. , 2008, , .		5
75	A Novel Dynamic Tuning of the Contention Window (CW) for IEEE 802.11e Enhanced Distributed Control Function. , 2008, , .		5
76	Interference-Aware Probability Forwarding Mechanism for Mobile Ad Hoc Networks. , 2008, , .		5
77	Channel efficiency-based transmission rate control for congestion avoidance in wireless ad hoc networks. IEEE Communications Letters, 2009, 13, 706-708.	4.1	5
78	An Efficient Coding Scheme Designed for N+k Protection in Wireless Mesh Networks. IEEE Communications Letters, 2012, 16, 1266-1269.	4.1	5
79	Coordinated dynamic physical carrier sensing based on local optimization in wireless ad hoc networks. , 2013, , .		5
80	Optimal candidate set for opportunistic routing in asynchronous wireless sensor networks. , 2014, , .		5
81	Efficient Multihop Broadcasting With Network Coding in Duty-Cycled Wireless Sensor Networks (NET). , 2017, 1, 1-4.		5
82	Energy Efficient Data Collection and Directional Wireless Power Transfer in Rechargeable Sensor Networks. IEEE Access, 2019, 7, 178466-178475.	4.2	5
83	A Cross View Learning Approach for Skeleton-Based Action Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 3061-3072.	8.3	5
84	An Efficient Cooperative Transmission Based Opportunistic Broadcast Scheme in VANETs. IEEE Transactions on Mobile Computing, 2021, , 1-1.	5.8	5
85	Performance Analysis of Chain Topology in IEEE 802.11 Multi-hop Ad hoc Networks. , 2007, , .		4
86	A Novel Energy Efficient Wireless Sensor MAC Protocol. , 2008, , .		4
87	Interference dynamics in MANETs with a random direction node mobility model. , 2013, , .		4
88	Optimal physical carrier sensing to defend against exposed terminal problem in wireless ad hoc networks. , 2014, , .		4
89	A probabilistic broadcast algorithm based on the connectivity information of predictable rendezvous nodes in mobile ad hoc networks. , 2014, , .		4
90	Determination of Reliable Grain Boundary Orientation using Automated Crystallographic Orientation Mapping in the Transmission Electron Microscope. Microscopy and Microanalysis, 2015, 21, 1663-1664.	0.4	4

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91	Lightweight Self-Adapting Linear Prediction Algorithms for Wireless Sensor Networks. IEEE Sensors Journal, 2015, 15, 3050-3058.	4.7	4
92	Understanding E-Commerce Systems under Massive Flash Crowd: Measurement, Analysis, and Implications. IEEE Transactions on Services Computing, 2019, , 1-1.	4.6	4
93	Delay-Constrained and Energy-Efficient Cross-Layer Routing in Wireless Sensor Networks. Ruan Jian Xue Bao/Journal of Software, 2011, 22, 1626-1640.	0.3	4
94	Self-Sensing Pneumatic Compressing Actuator. Frontiers in Neurorobotics, 2020, 14, 572856.	2.8	4
95	TCP Throughput for Vehicle-to-Vehicle Communications. , 2006, , .		3
96	A Practical Low Interference Topology Control for Mobile Ad Hoc Networks. , 2007, , .		3
97	Interference-aware physical carrier sensing for maximum throughput in ad hoc networks. , 2008, , .		3
98	Joint Rate Control and Power Control in Wireless Ad Hoc Networks with QoS Requirements. , 2008, , .		3
99	Considering Lifetime Optimal Rate Allocation and Power Control in Wireless Ad hoc Networks. , 2008, , .		3
100	Cross-Layer Interference-Access-Aware Routing for Ad Hoc Wireless Networks. , 2008, , .		3
101	Task Scheduling for Probabilistic In -Band Network Telemetry. IEEE/ACM Transactions on Networking, 2022, 30, 2858-2869.	3.8	3
102	The redundant cache: An enhancement of cache mechanism in DSR. , 2007, , .		2
103	A Hybrid Interference Model-Based Topology Control Algorithm. , 2008, , .		2
104	Reputation Based Access Point Selection in 802.11 Network. , 2008, , .		2
105	Optimal rate allocation and power control in wireless ad hoc networks with random access. , 2008, , .		2
106	Network coding-based 1+N protection scheme in hybrid wireless-optical broadband access networks. , 2011, , .		2
107	RSS-based efficient grid-scan localization algorithm in wireless sensor networks. , 2012, , .		2
108	The broadcast based on optimal transmission cost tree in duty-unaware wireless sensor networks. , 2013, , .		2

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109	Localization algorithms based on a mobile anchor in wireless sensor networks. , 2014, , .		2
110	An Efficient Scheduling Scheme for XMP and DCTCP Mixed Flows in Commodity Data Centers. IEEE Communications Letters, 2018, 22, 1770-1773.	4.1	2
111	Integrated Routing Metric for Mobile Ad Hoc Networks. Ruan Jian Xue Bao/Journal of Software, 2009, 20, 3077-3085.	0.3	2
112	Where is the Traffic Going? A Comparative Study of Clouds Following Different Designs. IEEE Transactions on Services Computing, 2023, 16, 1473-1484.	4.6	2
113	Improve TCP Performance with Link-Aware Warning Method in Mobile Ad Hoc Networks. , 2008, , .		1
114	Joint Control to Improve Spatial Reuse for Mobile Ad Hoc Networks. , 2008, , .		1
115	A sequential chain directional transmission-based localization algorithm. , 2009, , .		1
116	Channel reservation based on contention and interference in wireless ad hoc networks. , 2014, , .		1
117	TCP congestion control based on accurate bandwidth-delay product in wireless Ad hoc networks. , 2014, , .		1
118	An Opportunistic Routing Protocol based on Link Quality and Local Topology in Mobile Ad hoc Networks. , 2018, , .		1
119	A Frame Prioritization Based on Classified Contentions in Multi-hop Wireless Ad hoc Networks. , 2018, , .		1
120	An Energy-Efficient Network-Wide Broadcast Protocol for Asynchronous Wireless Sensor Networks. IEEE Wireless Communications Letters, 2018, 7, 918-921.	5.0	1
121	A Selective Anchor Node Localization Algorithm for Wireless Sensor Networks. , 2007, , .		1
122	Fuzzy Logic Mobility Prediction Routing Algorithm for Mobile Ad Hoc Networks. Ruan Jian Xue Bao/Journal of Software, 2009, 20, 3205-3212.	0.3	1
123	RCDS: A Ranking-Based Algorithm to Compute the CDS of the Ad Hoc Networks. , 2008, , .		0
124	A Localization Routing Discovery Mechanism for Mobile Ad Hoc Networks. , 2008, , .		0
125	A Low Interference Channel Assignment Algorithm for Wireless Mesh Networks. , 2008, , .		0
126	Connectivity based on shadow fading and interference in wireless ad hoc networks. , 2013, , .		0

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127	Delay-constrained efficient broadcasting in duty-unaware asynchronous wireless sensor networks. , 2015, , .		0
128	Efficient Scheduling in Training Deep Convolutional Networks at Large Scale. IEEE Access, 2018, 6, 61452-61456.	4.2	0
129	A Novel Adaptively Dynamic Tuning of the Contention Window (CW)for Distributed Coordination Function in IEEE 802.11 Ad hoc Networks. , 2007, , .		0
130	An Adaptive and Distributed Clustering Scheme for Wireless Sensor Networks. , 2007, , .		0
131	Performance Analysis of Chain Topology in IEEE 802.11 Multi-hop Ad hoc Networks. , 2007, , .		0
132	Modeling and Characterization of the Detection and Suppression of Bogus Messages in Vehicular Ad Hoc Networks. IEEE Transactions on Mobile Computing, 2022, , 1-15.	5.8	0