

# Xinming Zhang

## List of Publications by Year in descending order

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132  
papers

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394421

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all docs

133  
docs citations

133  
times ranked

1759  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	mg2vec: Learning Relationship-Preserving Heterogeneous Graph Representations via Metagraph Embedding. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 1317-1329.	5.7	18
4	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
5	Adaptive Beamforming-Based Gigabit Message Dissemination for Highway VANETs. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7666-7679.	8.0	7
6	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
7	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
8	Task Scheduling for Probabilistic In-Band Network Telemetry. IEEE/ACM Transactions on Networking, 2022, 30, 2858-2869.	3.8	3
9	A Cross-Modal Learning Approach for Recognizing Human Actions. IEEE Systems Journal, 2021, 15, 2322-2330.	4.6	9
10	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
11	Po-Fi: Facilitating innovations on WiFi networks with an SDN approach. Computer Networks, 2021, 187, 107781.	5.1	11
12	Understanding commercial 5G and its implications to (Multipath) TCP. Computer Networks, 2021, 198, 108401.	5.1	13
13	An Efficient Cooperative Transmission Based Opportunistic Broadcast Scheme in VANETs. IEEE Transactions on Mobile Computing, 2021, , 1-1.	5.8	5
14	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
15	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
16	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
17	Content to cash: Understanding and improving crowdsourced live video broadcasting services with monetary donations. Computer Networks, 2020, 178, 107281.	5.1	7
18	Towards Locality-Aware Meta-Learning of Tail Node Embeddings on Networks. , 2020, , .		19

#	ARTICLE	IF	CITATIONS
19	Self-Sensing Pneumatic Compressing Actuator. <i>Frontiers in Neurorobotics</i> , 2020, 14, 572856.	2.8	4
20	A Black-Burst Based Time Slot Acquisition Scheme for the Hybrid TDMA/CSMA Multichannel MAC in VANETs. <i>IEEE Wireless Communications Letters</i> , 2019, 8, 137-140.	5.0	17
21	A Fast and Efficient Broadcast Protocol With a Mobile Sink Node in Asynchronous Wireless Sensor Networks. <i>IEEE Access</i> , 2019, 7, 92813-92824.	4.2	8
22	Efficient Algorithms for Mobile Sink Aided Data Collection From Dedicated and Virtual Aggregation Nodes in Energy Harvesting Wireless Sensor Networks. <i>IEEE Transactions on Green Communications and Networking</i> , 2019, 3, 1058-1071.	5.5	21
23	A Cluster-Based Broadcast Scheduling Scheme for mmWave Vehicular Communication. <i>IEEE Communications Letters</i> , 2019, 23, 1202-1206.	4.1	21
24	Energy Efficient Data Collection and Directional Wireless Power Transfer in Rechargeable Sensor Networks. <i>IEEE Access</i> , 2019, 7, 178466-178475.	4.2	5
25	Minimizing the Longest Charge Delay of Multiple Mobile Chargers for Wireless Rechargeable Sensor Networks by Charging Multiple Sensors Simultaneously. , 2019, , .		29
26	An Opportunistic Routing in Energy-Harvesting Wireless Sensor Networks With Dynamic Transmission Power. <i>IEEE Access</i> , 2019, 7, 180652-180660.	4.2	9
27	Network Coding-Based Flooding with a Mobile Sink in Low-Duty-Cycle Wireless Sensor Networks. <i>IEEE Transactions on Mobile Computing</i> , 2019, 18, 1857-1869.	5.8	7
28	A Public Goods Game Theory-Based Approach to Cooperation in VANETs Under a High Vehicle Density Condition. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019, 20, 3995-4005.	8.0	14
29	Beyond the Watching: Understanding Viewer Interactions in Crowdsourced Live Video Broadcasting Services. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019, 29, 3454-3468.	8.3	27
30	Understanding E-Commerce Systems under Massive Flash Crowd: Measurement, Analysis, and Implications. <i>IEEE Transactions on Services Computing</i> , 2019, , 1-1.	4.6	4
31	A Concurrent Transmission Based Broadcast Scheme for Urban VANETs. <i>IEEE Transactions on Mobile Computing</i> , 2019, 18, 1-12.	5.8	38
32	Exploring the size effects of Al4C3 on the mechanical properties and thermal behaviors of Al-based composites reinforced by SiC and carbon nanotubes. <i>Carbon</i> , 2018, 135, 224-235.	10.3	147
33	Flooding With Network Coding Under a Schedule-Based Spanning Tree in Low-Duty-Cycle Wireless Sensor Networks. <i>IEEE Wireless Communications Letters</i> , 2018, 7, 270-273.	5.0	6
34	Efficient Scheduling in Training Deep Convolutional Networks at Large Scale. <i>IEEE Access</i> , 2018, 6, 61452-61456.	4.2	0
35	An Opportunistic Routing Protocol based on Link Quality and Local Topology in Mobile Ad hoc Networks. , 2018, , .		1
36	A Frame Prioritization Based on Classified Contentions in Multi-hop Wireless Ad hoc Networks. , 2018, , .		1

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37	PNPL: Simplifying programming for protocol-oblivious SDN networks. <i>Computer Networks</i> , 2018, 147, 64-80.	5.1	17
38	A Cooperative Communication Scheme for Full-Duplex Simultaneous Wireless Information and Power Transfer Wireless Body Area Networks. , 2018, 2, 1-4.		8
39	An Energy-Efficient Network-Wide Broadcast Protocol for Asynchronous Wireless Sensor Networks. <i>IEEE Wireless Communications Letters</i> , 2018, 7, 918-921.	5.0	1
40	An Opportunistic Packet Forwarding for Energy-Harvesting Wireless Sensor Networks With Dynamic and Heterogeneous Duty Cycle. , 2018, 2, 1-4.		11
41	An Adaptive Link Quality-Based Safety Message Dissemination Scheme for Urban VANETs. <i>IEEE Communications Letters</i> , 2018, 22, 2104-2107.	4.1	15
42	An Efficient Scheduling Scheme for XMP and DCTCP Mixed Flows in Commodity Data Centers. <i>IEEE Communications Letters</i> , 2018, 22, 1770-1773.	4.1	2
43	A Realistic Spatial-Distribution-Based Connectivity-Aware Routing Protocol in Multilevel Scenarios of Urban VANETs. <i>IEEE Communications Letters</i> , 2018, 22, 1906-1909.	4.1	12
44	Enhanced mechanical properties of aluminum based composites reinforced by chemically oxidized carbon nanotubes. <i>Carbon</i> , 2018, 139, 459-471.	10.3	82
45	An Adaptive Control Structure Based Fast Broadcast Protocol for Vehicular Ad Hoc Networks. <i>IEEE Communications Letters</i> , 2017, 21, 1835-1838.	4.1	20
46	By example synthesis of three-dimensional porous materials. <i>Computer Aided Geometric Design</i> , 2017, 52-53, 285-296.	1.2	7
47	Efficient Multihop Broadcasting With Network Coding in Duty-Cycled Wireless Sensor Networks (NET). , 2017, 1, 1-4.		5
48	Optimizing Opportunistic Routing in Asynchronous Wireless Sensor Networks. <i>IEEE Communications Letters</i> , 2017, 21, 2302-2305.	4.1	15
49	Efficient and Reliable Abiding Geocast Based on Carrier Sets for Vehicular Ad Hoc Networks. <i>IEEE Wireless Communications Letters</i> , 2016, 5, 660-663.	5.0	8
50	A Street-Centric Opportunistic Routing Protocol Based on Link Correlation for Urban VANETs. <i>IEEE Transactions on Mobile Computing</i> , 2016, 15, 1586-1599.	5.8	101
51	Energy Efficient Switch-Based Packet Forwarding for Low Duty-Cycle Wireless Sensor Networks. <i>IEEE Communications Letters</i> , 2016, 20, 990-993.	4.1	8
52	Dynamic Delegation-Based Efficient Broadcast Protocol for Asynchronous Wireless Sensor Networks. <i>IEEE Communications Letters</i> , 2016, 20, 1195-1198.	4.1	6
53	A Traffic-Light-Aware Routing Protocol Based on Street Connectivity for Urban Vehicular Ad Hoc Networks. <i>IEEE Communications Letters</i> , 2016, 20, 1635-1638.	4.1	50
54	A Spatial Mashup Service for Efficient Evaluation of Concurrent -NN Queries. <i>IEEE Transactions on Computers</i> , 2016, 65, 2428-2442.	3.4	15

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55	Coverage Efficiency-Based Broadcast Protocol for Asynchronous Wireless Sensor Networks. IEEE Wireless Communications Letters, 2016, 5, 76-79.	5.0	12
56	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
57	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
58	Lightweight Self-Adapting Linear Prediction Algorithms for Wireless Sensor Networks. IEEE Sensors Journal, 2015, 15, 3050-3058.	4.7	4
59	Delay-constrained efficient broadcasting in duty-unaware asynchronous wireless sensor networks. , 2015, , .		0
60	Interference-Based Topology Control Algorithm for Delay-Constrained Mobile Ad Hoc Networks. IEEE Transactions on Mobile Computing, 2015, 14, 742-754.	5.8	196
61	Optimal candidate set for opportunistic routing in asynchronous wireless sensor networks. , 2014, , .		5
62	Localization algorithms based on a mobile anchor in wireless sensor networks. , 2014, , .		2
63	Optimal physical carrier sensing to defend against exposed terminal problem in wireless ad hoc networks. , 2014, , .		4
64	Channel reservation based on contention and interference in wireless ad hoc networks. , 2014, , .		1
65	A probabilistic broadcast algorithm based on the connectivity information of predictable rendezvous nodes in mobile ad hoc networks. , 2014, , .		4
66	TCP congestion control based on accurate bandwidth-delay product in wireless Ad hoc networks. , 2014, , .		1
67	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
68	SMashQ: spatial mashup framework for k-NN queries in time-dependent road networks. Distributed and Parallel Databases, 2013, 31, 259-287.	1.6	24
69	Coordinated dynamic physical carrier sensing based on local optimization in wireless ad hoc networks. , 2013, , .		5
70	Connectivity based on shadow fading and interference in wireless ad hoc networks. , 2013, , .		0
71	The broadcast based on optimal transmission cost tree in duty-unaware wireless sensor networks. , 2013, , .		2
72	Interference dynamics in MANETs with a random direction node mobility model. , 2013, , .		4

#	ARTICLE	IF	CITATIONS
73	RSS-based efficient grid-scan localization algorithm in wireless sensor networks. , 2012, , .		2
74	An Efficient Coding Scheme Designed for N+k Protection in Wireless Mesh Networks. IEEE Communications Letters, 2012, 16, 1266-1269.	4.1	5
75	An Estimated Distance-Based Routing Protocol for Mobile Ad hoc Networks. IEEE Transactions on Vehicular Technology, 2011, 60, 3473-3484.	6.3	37
76	Network coding-based 1+N protection scheme in hybrid wireless-optical broadband access networks. , 2011, , .		2
77	Efficient Evaluation of k-NN Queries Using Spatial Mashups. Lecture Notes in Computer Science, 2011, , 348-366.	1.3	11
78	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
79	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
80	TCP Congestion Window Adaptation Through Contention Detection in Ad Hoc Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 4578-4588.	6.3	18
81	Wavelength Assignment Scheme of ONUs in Hybrid TDM/WDM Fiber-Wireless Networks. , 2010, , .		6
82	Opportunistic Cooperation in Low Duty Cycle Wireless Sensor Networks. , 2010, , .		19
83	A sequential chain directional transmission-based localization algorithm. , 2009, , .		1
84	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
85	Channel efficiency-based transmission rate control for congestion avoidance in wireless ad hoc networks. IEEE Communications Letters, 2009, 13, 706-708.	4.1	5
86	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
87	Integrated Routing Metric for Mobile Ad Hoc Networks. Ruan Jian Xue Bao/Journal of Software, 2009, 20, 3077-3085.	0.3	2
88	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
89	A Hybrid Interference Model-Based Topology Control Algorithm. , 2008, , .		2
90	Improve preemptive routing performance in mobile ad hoc networks with Cache-enabled method. , 2008, , .		5

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91	Interference-aware physical carrier sensing for maximum throughput in ad hoc networks. , 2008, , .		3
92	Reputation Based Access Point Selection in 802.11 Network. , 2008, , .		2
93	Optimal rate allocation and power control in wireless ad hoc networks with random access. , 2008, , .		2
94	A Novel Dynamic Tuning of the Contention Window (CW) for IEEE 802.11e Enhanced Distributed Control Function. , 2008, , .		5
95	Joint Rate Control and Power Control in Wireless Ad Hoc Networks with QoS Requirements. , 2008, , .		3
96	A Novel Energy Efficient Wireless Sensor MAC Protocol. , 2008, , .		4
97	Improve TCP Performance with Link-Aware Warning Method in Mobile Ad Hoc Networks. , 2008, , .		1
98	RCDS: A Ranking-Based Algorithm to Compute the CDS of the Ad Hoc Networks. , 2008, , .		0
99	Interference-Aware Probability Forwarding Mechanism for Mobile Ad Hoc Networks. , 2008, , .		5
100	Joint Control to Improve Spatial Reuse for Mobile Ad Hoc Networks. , 2008, , .		1
101	Considering Lifetime Optimal Rate Allocation and Power Control in Wireless Ad hoc Networks. , 2008, , .		3
102	Cross-Layer Interference-Access-Aware Routing for Ad Hoc Wireless Networks. , 2008, , .		3
103	A Localization Routing Discovery Mechanism for Mobile Ad Hoc Networks. , 2008, , .		0
104	A Low Interference Channel Assignment Algorithm for Wireless Mesh Networks. , 2008, , .		0
105	A Traffic Queue-aware MAC Protocol for Wireless Sensor Networks. , 2007, , .		5
106	A Joint Power Control, Link Scheduling and Rate Control Algorithm for Wireless Ad Hoc Networks. , 2007, , .		8
107	A RSSI-Based DV-Hop Algorithm for Wireless Sensor Networks. , 2007, , .		57
108	Performance Analysis of Chain Topology in IEEE 802.11 Multi-hop Ad hoc Networks. , 2007, , .		4

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109	A Link Reliability-Aware Route Maintenance Mechanism for Mobile Ad Hoc Networks. , 2007, , .		5
110	A Practical Low Interference Topology Control for Mobile Ad Hoc Networks. , 2007, , .		3
111	Contention and Queue-Aware Routing Protocol for Mobile Ad Hoc Networks. , 2007, , .		24
112	An Efficient Heuristic Gossiping Mechanism in Ad Hoc Routing. , 2007, , .		5
113	Load Balance Routing using Packet Success Rate for Mobile Ad Hoc Networks. , 2007, , .		12
114	A Novel Adaptively Dynamic Tuning of the Contention Window (CW)for Distributed Coordination Function in IEEE 802.11 Ad hoc Networks. , 2007, , .		30
115	The redundant cache: An enhancement of cache mechanism in DSR. , 2007, , .		2
116	An Adaptive and Distributed Clustering Scheme for Wireless Sensor Networks. , 2007, , .		6
117	An Average Link Interference-Aware Routing Protocol for Mobile Ad Hoc Networks. , 2007, , .		25
118	A Transmission Power Control MAC Protocol for Wireless Sensor Networks. , 2007, , .		21
119	A Novel Virtual Anchor Node-Based Localization Algorithm for Wireless Sensor Networks. , 2007, , .		28
120	Lifetime-Aware Leisure Degree Adaptive Routing Protocol for Mobile Ad Hoc Networks. , 2007, , .		18
121	A Selective Anchor Node Localization Algorithm for Wireless Sensor Networks. , 2007, , .		22
122	A Selective Anchor Node Localization Algorithm for Wireless Sensor Networks. , 2007, , .		1
123	A Novel Adaptively Dynamic Tuning of the Contention Window (CW)for Distributed Coordination Function in IEEE 802.11 Ad hoc Networks. , 2007, , .		0
124	An Adaptive and Distributed Clustering Scheme for Wireless Sensor Networks. , 2007, , .		0
125	Performance Analysis of Chain Topology in IEEE 802.11 Multi-hop Ad hoc Networks. , 2007, , .		0
126	Fast example-based surface texture synthesis via discrete optimization. Visual Computer, 2006, 22, 918-925.	3.5	68



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127	TCP Throughput for Vehicle-to-Vehicle Communications. , 2006, , .		3
128	Longest Lifetime Path in Mobile Ad Hoc Networks. Ruan Jian Xue Bao/Journal of Software, 2006, 17, 498.	0.3	10
129	Finding the Minimum MPR Set in OLSR Protocol with Genetic Algorithms. Ruan Jian Xue Bao/Journal of Software, 2006, 17, 932.	0.3	8
130	A Delay Oriented Adaptive Routing Protocol for Mobile Ad hoc Networks. Ruan Jian Xue Bao/Journal of Software, 2005, 16, 1661.	0.3	7
131	A Leisure Degree Adaptive Routing Protocol for Mobile Ad Hoc Network. Ruan Jian Xue Bao/Journal of Software, 2005, 16, 960.	0.3	9
132	An analysis of live streaming workloads on the internet. , 2004, , .		229