

# Jang-Ping Sheu

## List of Publications by Year in descending order

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81  
papers

2,251  
citations

304602

22  
h-index

254106

43  
g-index

81  
all docs

81  
docs citations

81  
times ranked

1462  
citing authors

#	ARTICLE	IF	CITATIONS
1	GRID: A Fully Location-Aware Routing Protocol for Mobile Ad Hoc Networks. Telecommunication Systems, 2001, 18, 37-60.	1.6	310
2	Intelligent medium access for mobile ad hoc networks with busy tones and power control. IEEE Journal on Selected Areas in Communications, 2000, 18, 1647-1657.	9.7	216
3	A Distributed Localization Scheme for Wireless Sensor Networks with Improved Grid-Scan and Vector-Based Refinement. IEEE Transactions on Mobile Computing, 2008, 7, 1110-1123.	3.9	131
4	Fault-tolerant ring embedding in a star graph with both link and node failures. IEEE Transactions on Parallel and Distributed Systems, 1997, 8, 1185-1195.	4.0	103
5	An adaptive quorum-based energy conserving protocol for IEEE 802.11 ad hoc networks. IEEE Transactions on Mobile Computing, 2006, 5, 560-570.	3.9	101
6	Novel Channel-Hopping Schemes for Cognitive Radio Networks. IEEE Transactions on Mobile Computing, 2014, 13, 407-421.	3.9	84
7	An efficient routing algorithm based on segment routing in software-defined networking. Computer Networks, 2016, 103, 44-55.	3.2	68
8	A Clock Synchronization Algorithm for Multihop Wireless Ad Hoc Networks. Wireless Personal Communications, 2007, 43, 185-200.	1.8	63
9	Scalable continuous object detection and tracking in sensor networks. Journal of Parallel and Distributed Computing, 2010, 70, 212-224.	2.7	54
10	An on-demand, link-state, multi-path QoS routing in a wireless mobile ad-hoc network. Computer Communications, 2004, 27, 27-40.	3.1	52
11	Wildcard Rules Caching and Cache Replacement Algorithms in Software-Defined Networking. IEEE Transactions on Network and Service Management, 2016, 13, 19-29.	3.2	52
12	An optimal broadcasting algorithm without message redundancy in star graphs. IEEE Transactions on Parallel and Distributed Systems, 1995, 6, 653-658.	4.0	51
13	Realizing Outdoor Independent Learning with a Butterfly-Watching Mobile Learning System. Journal of Educational Computing Research, 2005, 33, 395-417.	3.6	48
14	Communication-free data allocation techniques for parallelizing compilers on multicomputers. IEEE Transactions on Parallel and Distributed Systems, 1994, 5, 924-938.	4.0	46
15	A Multi-Path QoS Routing Protocol in a Wireless Mobile Ad Hoc Network. Telecommunication Systems, 2002, 19, 329-347.	1.6	38
16	Data broadcasting and seamless channel transition for highly demanded videos. IEEE Transactions on Communications, 2001, 49, 863-874.	4.9	37
17	Asynchronous Quorum-Based Blind Rendezvous Schemes for Cognitive Radio Networks. IEEE Transactions on Communications, 2016, 64, 918-930.	4.9	34
18	A broadcasting algorithm in star graph interconnection networks. Information Processing Letters, 1993, 48, 237-241.	0.4	30

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19	A Resource Allocation Scheme for Scalable Video Multicast in WiMAX Relay Networks. IEEE Transactions on Mobile Computing, 2013, 12, 90-104.	3.9	27
20	Efficient path-based multicast in wormhole-routed mesh networks. Journal of Systems Architecture, 2000, 46, 919-930.	2.5	26
21	Toward optimal broadcast in a star graph using multiple spanning trees. IEEE Transactions on Computers, 1997, 46, 593-599.	2.4	25
22	Power control based topology construction for the distributed wireless sensor networks. Computer Communications, 2007, 30, 2774-2785.	3.1	25
23	Efficient path planning and data gathering protocols for the wireless sensor network. Computer Communications, 2010, 33, 398-408.	3.1	25
24	A scalable and bandwidth-efficient multicast algorithm based on segment routing in software-defined networking. , 2017, , .		23
25	WSNTB: A testbed for heterogeneous wireless sensor networks. , 2008, , .		22
26	Dynamic Spectrum Allocation Algorithms for Industrial Cognitive Radio Networks. IEEE Transactions on Industrial Informatics, 2018, 14, 3031-3043.	7.2	22
27	Efficient TCAM Rules Distribution Algorithms in Software-Defined Networking. IEEE Transactions on Network and Service Management, 2018, 15, 854-865.	3.2	22
28	Dynamic channel allocation with location awareness for multi-hop mobile ad hoc networks. Computer Communications, 2002, 25, 676-688.	3.1	20
29	Ratio-based time synchronization protocol in wireless sensor networks. Telecommunication Systems, 2008, 39, 25-35.	1.6	20
30	BlueCube: Constructing a hypercube parallel computing and communication environment over Bluetooth radio systems. Journal of Parallel and Distributed Computing, 2006, 66, 1243-1258.	2.7	18
31	Spectrum Allocation With Guaranteed Rendezvous in Asynchronous Cognitive Radio Networks for Internet of Things. IEEE Internet of Things Journal, 2019, 6, 6104-6116.	5.5	18
32	Performance analysis of multistage interconnection networks with hierarchical requesting model. IEEE Transactions on Computers, 1988, 37, 1438-1442.	2.4	17
33	Balanced spanning trees in complete and incomplete star graphs. IEEE Transactions on Parallel and Distributed Systems, 1996, 7, 717-723.	4.0	17
34	An Energy Conservation MAC Protocol in Wireless Sensor Networks. Wireless Personal Communications, 2009, 48, 261-276.	1.8	17
35	Design and analysis of collision free MAC for wireless sensor networks with or without data retransmission. Journal of Network and Computer Applications, 2017, 80, 10-21.	5.8	17
36	A Multi-Radio Rendezvous Algorithm Based on Chinese Remainder Theorem in Heterogeneous Cognitive Radio Networks. IEEE Transactions on Mobile Computing, 2018, 17, 1980-1990.	3.9	17

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37	An Enhanced Fast Multi-Radio Rendezvous Algorithm in Heterogeneous Cognitive Radio Networks. IEEE Transactions on Cognitive Communications and Networking, 2018, 4, 847-859.	4.9	17
38	On the Theoretical Gap of Channel Hopping Sequences With Maximum Rendezvous Diversity in the Multichannel Rendezvous Problem. IEEE/ACM Transactions on Networking, 2021, 29, 1620-1633.	2.6	17
39	Location-free topology control protocol in wireless ad hoc networks. Computer Communications, 2008, 31, 3410-3419.	3.1	16
40	Cooperative routing protocol in cognitive radio ad-hoc networks. , 2012, , .		16
41	Route Maintenance in a Wireless Mobile Ad Hoc Network. Telecommunication Systems, 2001, 18, 61-84.	1.6	15
42	Pair-wise path key establishment in wireless sensor networks. Computer Communications, 2007, 30, 2365-2374.	3.1	15
43	A Game Theory Based Congestion Control Protocol for Wireless Personal Area Networks. Journal of Sensors, 2016, 2016, 1-13.	0.6	15
44	Efficient broadcasting protocols for regular wireless sensor networks. Wireless Communications and Mobile Computing, 2006, 6, 35-48.	0.8	14
45	An efficient reliable broadcasting protocol for wireless mobile ad hoc networks. Ad Hoc Networks, 2007, 5, 299-312.	3.4	14
46	Efficient multicast algorithms for scalable video coding in software-defined networking. , 2015, , .		14
47	A Distributed Routing Protocol and Handover Schemes in Hybrid Vehicular Ad Hoc Networks. , 2011, , .		13
48	A Game Theory Based Congestion Control Protocol for Wireless Personal Area Networks. , 2015, , .		13
49	UAV Deployment and IoT Device Association for Energy-Efficient Data-Gathering in Fixed-Wing Multi-UAV Networks. IEEE Transactions on Green Communications and Networking, 2021, 5, 1934-1946.	3.5	12
50	A Distributed Query Protocol in Wireless Sensor Networks. Wireless Personal Communications, 2007, 41, 449-464.	1.8	11
51	A distributed Wireless Sensor Network testbed with energy consumption estimation. International Journal of Ad Hoc and Ubiquitous Computing, 2010, 6, 63.	0.3	11
52	A Distributed Taxi Hailing Protocol in Vehicular Ad-Hoc Networks. , 2010, , .		11
53	Power-Efficient Trajectory Adjustment and Temporal Routing for Multi-UAV Networks. IEEE Transactions on Green Communications and Networking, 2020, 4, 1106-1119.	3.5	11
54	A distributed IP address assignment scheme in ad hoc networks. International Journal of Ad Hoc and Ubiquitous Computing, 2008, 3, 10.	0.3	10

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55	Coloring-Based Channel Allocation for Multiple Coexisting Wireless Body Area Networks: A Game-Theoretic Approach. IEEE Transactions on Mobile Computing, 2020, , 1-1.	3.9	10
56	Cache-Based Routing for Vehicular Ad Hoc Networks in City Environments. , 2010, , .		9
57	A MULTICAST ALGORITHM FOR HYPERCUBE MULTIPROCESSORS. International Journal of Parallel, Emergent and Distributed Systems, 1994, 2, 277-290.	0.4	8
58	Hole detection and boundary recognition in wireless sensor networks. , 2009, , .		8
59	A Comment on "Short Channel Hopping Sequence Approach to Rendezvous for Cognitive Networks" IEEE Communications Letters, 2014, 18, 1631-1632.	2.5	7
60	Efficient unicast routing algorithms in Software-Defined Networking. , 2016, , .		7
61	Zooming: A Zoom-Based Approach for Parking Space Availability in VANET. , 2010, , .		6
62	Load-Balanced Trees for Data Collection in Wireless Sensor Networks. , 2012, , .		6
63	Interference-aware channel allocation algorithm with game theoretic approach for cognitive radio networks. , 2014, , .		6
64	A Fast Multi-Radio Rendezvous Algorithm in Heterogeneous Cognitive Radio Networks. , 2018, , .		6
65	UAV Trajectory Optimization for Joint Relay Communication and Image Surveillance. IEEE Transactions on Wireless Communications, 2022, 21, 10177-10192.	6.1	6
66	A registration system for aiding in localization and routing in hybrid VANETs. , 2012, , .		5
67	Unilateral Wakeup for Mobile Ad Hoc Networks with Group Mobility. IEEE Transactions on Mobile Computing, 2013, 12, 2507-2517.	3.9	5
68	A cooperative MAC protocol based on 802.11 in wireless Ad hoc networks. , 2013, , .		4
69	Design and implementation of a distributed file system. Software - Practice and Experience, 1991, 21, 657-675.	2.5	3
70	Routing with hexagonal virtual coordinates in wireless sensor networks. Wireless Communications and Mobile Computing, 2009, 9, 1206-1219.	0.8	3
71	Unilateral Wakeup for Mobile Ad Hoc Networks. , 2011, , .		2
72	An Efficient Transmission Protocol Based on Network Coding in Delay Tolerant Networks. , 2013, , .		2

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73	Wildcard-rule caching and cache replacement algorithms in Software-Defined Networking. , 2017, , .		2
74	Probabilistic k-weighted coverage placement in wireless sensor networks. , 2017, , .		2
75	Virtual landmarks assisted routing protocol in Vehicular Ad hoc Networks. , 2009, , .		1
76	Ultra-Low-Latency Distributed Deep Neural Network over Hierarchical Mobile Networks. , 2019, , .		1
77	Performance Evaluation of MAC Mechanisms in Wireless Sensor Networks. , 2010, , 43-67.		1
78	Efficient bandwidth allocation scheme for wireless networks using relay stations. , 2013, , .		0
79	An approximation downlink bandwidth allocation scheme for IEEE 802.16 OFDMA system. , 2013, , .		0
80	Message from the general co-chairs IEEE ICPADS 2014. , 2014, , .		0
81	Obstacle-Resist Routing Protocols for Wireless Sensor Networks. , 2010, , 117-139.		0