

Yu-Chee Tseng

List of Publications by Year in descending order

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121
papers

9,578
citations

101543

36
h-index

91884

69
g-index

121
all docs

121
docs citations

121
times ranked

4411
citing authors

#	ARTICLE	IF	CITATIONS
1	The broadcast storm problem in a mobile ad hoc network. , 1999, , .		1,981
2	The Broadcast Storm Problem in a Mobile Ad Hoc Network. Wireless Networks, 2002, 8, 153-167.	3.0	1,100
3	The Coverage Problem in a Wireless Sensor Network. Mobile Networks and Applications, 2005, 10, 519-528.	3.3	507
4	Adaptive approaches to relieving broadcast storms in a wireless multihop mobile ad hoc network. IEEE Transactions on Computers, 2003, 52, 545-557.	3.4	332
5	A new multi-channel MAC protocol with on-demand channel assignment for multi-hop mobile ad hoc networks. , 0, , .		311
6	GRID: A Fully Location-Aware Routing Protocol for Mobile Ad Hoc Networks. Telecommunication Systems, 2001, 18, 37-60.	2.5	310
7	From wireless sensor networks towards cyber physical systems. Pervasive and Mobile Computing, 2011, 7, 397-413.	3.3	291
8	Power-saving protocols for IEEE 802.11-based multi-hop ad hoc networks. Computer Networks, 2003, 43, 317-337.	5.1	267
9	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.	14.0	216
10	Wireless Sensor Networks for Emergency Navigation. Computer, 2006, 39, 55-62.	1.1	194
11	Efficient in-network moving object tracking in wireless sensor networks. IEEE Transactions on Mobile Computing, 2006, 5, 1044-1056.	5.8	190
12	Quorum-Based Asynchronous Power-Saving Protocols for IEEE 802.11 Ad Hoc Networks. Mobile Networks and Applications, 2005, 10, 169-181.	3.3	180
13	Efficient Placement and Dispatch of Sensors in a Wireless Sensor Network. IEEE Transactions on Mobile Computing, 2008, 7, 262-274.	5.8	179
14	A secure data hiding scheme for binary images. IEEE Transactions on Communications, 2002, 50, 1227-1231.	7.8	176
15	Distributed Deployment Schemes for Mobile Wireless Sensor Networks to Ensure Multilevel Coverage. IEEE Transactions on Parallel and Distributed Systems, 2008, 19, 1280-1294.	5.6	164
16	A WSN-Based Intelligent Light Control System Considering User Activities and Profiles. IEEE Sensors Journal, 2008, 8, 1710-1721.	4.7	151
17	Efficient Deployment Algorithms for Ensuring Coverage and Connectivity of Wireless Sensor Networks. , 0, , .		139
18	iMouse: An Integrated Mobile Surveillance and Wireless Sensor System. Computer, 2007, 40, 60-66.	1.1	121

#	ARTICLE	IF	CITATIONS
19	Power-saving protocols for IEEE 802.11-based multi-hop ad hoc networks. , 0, , .		105
20	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.	5.6	103
21	Distributed protocols for ensuring both coverage and connectivity of a wireless sensor network. ACM Transactions on Sensor Networks, 2007, 3, 5.	3.6	103
22	Code placement and replacement strategies for wideband CDMA OVSF code tree management. IEEE Transactions on Mobile Computing, 2002, 1, 293-302.	5.8	101
23	A recursive frequency-splitting scheme for broadcasting hot videos in VOD service. IEEE Transactions on Communications, 2002, 50, 1348-1355.	7.8	98
24	Energy-Balanced Dispatch of Mobile Sensors in a Hybrid Wireless Sensor Network. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 1836-1850.	5.6	83
25	THE COVERAGE PROBLEM IN THREE-DIMENSIONAL WIRELESS SENSOR NETWORKS. Journal of Interconnection Networks, 2007, 08, 209-227.	1.0	80
26	Mobility management algorithms and applications for mobile sensor networks. Wireless Communications and Mobile Computing, 2012, 12, 7-21.	1.2	80
27	The Orphan Problem in ZigBee Wireless Networks. IEEE Transactions on Mobile Computing, 2009, 8, 1573-1584.	5.8	74
28	A TDMA-based bandwidth reservation protocol for QoS routing in a wireless mobile ad hoc network. , 0, , .		73
29	On route lifetime in multihop mobile ad hoc networks. IEEE Transactions on Mobile Computing, 2003, 2, 366-376.	5.8	73
30	Efficient broadcasting in wormhole-routed multicomputers: a network-partitioning approach. IEEE Transactions on Parallel and Distributed Systems, 1999, 10, 44-61.	5.6	72
31	A Priority MAC Protocol to Support Real-Time Traffic in Ad Hoc Networks. Wireless Networks, 2004, 10, 61-69.	3.0	72
32	A Scrambling Method for Fingerprint Positioning Based on Temporal Diversity and Spatial Dependency. IEEE Transactions on Knowledge and Data Engineering, 2008, 20, 678-684.	5.7	72
33	Data hiding in 2-color images. IEEE Transactions on Computers, 2002, 51, 873-880.	3.4	63
34	Quick convergecast in ZigBee beacon-enabled tree-based wireless sensor networks. Computer Communications, 2008, 31, 999-1011.	5.1	59
35	Location Tracking in a Wireless Sensor Network by Mobile Agents and Its Data Fusion Strategies. Lecture Notes in Computer Science, 2003, , 625-641.	1.3	57
36	The coverage problem in three-dimensional wireless sensor networks. , 0, , .		56

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37	Multiresolution Spatial and Temporal Coding in a Wireless Sensor Network for Long-Term Monitoring Applications. IEEE Transactions on Computers, 2009, 58, 827-838.	3.4	54
38	A Two-Tier Heterogeneous Mobile Ad Hoc Network Architecture and Its Load-Balance Routing Problem. Mobile Networks and Applications, 2004, 9, 379-391.	3.3	52
39	Adaptive approaches to relieving broadcast storms in a wireless multihop mobile ad hoc network. , 0, , .		50
40	Code placement and replacement strategies for wideband CDMA OVSF code tree management. , 0, , .		47
41	Address Assignment and Routing Schemes for ZigBee-Based Long-Thin Wireless Sensor Networks. IEEE Vehicular Technology Conference, 2008, , .	0.4	44
42	Reducing internal and external fragmentations of OVSF codes in WCDMA systems with multiple codes. IEEE Transactions on Wireless Communications, 2005, 4, 1516-1526.	9.2	39
43	A Multi-Path QoS Routing Protocol in a Wireless Mobile Ad Hoc Network. Telecommunication Systems, 2002, 19, 329-347.	2.5	38
44	Interference Analysis and Resource Allocation for TDD-CDMA Systems to Support Asymmetric Services by Using Directional Antennas. IEEE Transactions on Vehicular Technology, 2005, 54, 1056-1069.	6.3	38
45	Data broadcasting and seamless channel transition for highly demanded videos. IEEE Transactions on Communications, 2001, 49, 863-874.	7.8	37
46	An Infrastructure-less Framework for Preventing Rear-End Collisions by Vehicular Sensor Networks. IEEE Communications Letters, 2011, 15, 358-360.	4.1	37
47	Using Rotatable and Directional (R&D) Sensors to Achieve Temporal Coverage of Objects and Its Surveillance Application. IEEE Transactions on Mobile Computing, 2012, 11, 1358-1371.	5.8	35
48	Opportunistic data collection for disconnected wireless sensor networks by mobile mules. Ad Hoc Networks, 2013, 11, 1150-1164.	5.5	35
49	Bandwidth-optimal complete exchange on wormhole-routed 2D/3D torus networks: a diagonal-propagation approach. IEEE Transactions on Parallel and Distributed Systems, 1997, 8, 380-396.	5.6	34
50	A secure data hiding scheme for two-color images. , 0, , .		33
51	Collision analysis for a multi-Bluetooth picocells environment. IEEE Communications Letters, 2003, 7, 475-477.	4.1	33
52	A Framework for Simultaneous Message Broadcasting Using CDMA-Based Visible Light Communications. IEEE Sensors Journal, 2015, 15, 6819-6827.	4.7	33
53	Quorum-based asynchronous power-saving protocols for IEEE 802.11 ad hoc networks. , 2003, , .		31
54	Structures for in-network moving object tracking in wireless sensor networks. , 0, , .		31

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55	\$k\$-Angle Object Coverage Problem in a Wireless Sensor Network. IEEE Sensors Journal, 2012, 12, 3408-3416.	4.7	30
56	Toward optimal broadcast in a star graph using multiple spanning trees. IEEE Transactions on Computers, 1997, 46, 593-599.	3.4	25
57	Decentralized energy-conserving and coverage-preserving protocols for wireless sensor networks. ACM Transactions on Sensor Networks, 2006, 2, 182-187.	3.6	25
58	An adaptive sniff scheduling scheme for power saving in Bluetooth. IEEE Wireless Communications, 2002, 9, 92-103.	9.0	24
59	Seamless Channel Transition for the Staircase Video Broadcasting Scheme. IEEE/ACM Transactions on Networking, 2004, 12, 559-571.	3.8	24
60	An Improved Packet Collision Analysis for Multi-Bluetooth Piconets Considering Frequency-Hopping Guard Time Effect. IEEE Journal on Selected Areas in Communications, 2004, 22, 2087-2094.	14.0	24
61	Secure and invisible data hiding in 2-color images. , 0, , .		22
62	Mobile Ad Hoc Networks and Routing Protocols. , 0, , 371-392.		22
63	A dilated-diagonal-based scheme for broadcast in a wormhole-routed 2D torus. IEEE Transactions on Computers, 1997, 46, 947-952.	3.4	20
64	Dynamic channel allocation with location awareness for multi-hop mobile ad hoc networks. Computer Communications, 2002, 25, 676-688.	5.1	20
65	Dynamic bandwidth allocation for multimedia traffic with rate guarantee and fair access in WCDMA systems. IEEE Transactions on Mobile Computing, 2005, 4, 420-429.	5.8	20
66	Data Gathering by Mobile Mules in a Spatially Separated Wireless Sensor Network. , 2009, , .		19
67	Congestion-free, dilation-2 embedding of complete binary trees into star graphs. Networks, 1999, 33, 221-231.	2.7	17
68	Reducing internal and external fragmentations of OVFS codes in WCDMA systems with multiple codes. , 0, , .		17
69	Event-driven messaging services over integrated cellular and wireless sensor networks: prototyping experiences of a visitor system. IEEE Journal on Selected Areas in Communications, 2005, 23, 1133-1145.	14.0	17
70	Increasing the throughput of multihop packet radio networks with power adjustment. , 0, , .		16
71	A new BlueRing scatternet topology for Bluetooth with its formation, routing, and maintenance protocols. Wireless Communications and Mobile Computing, 2003, 3, 517-537.	1.2	16
72	Formation, routing, and maintenance protocols for the BlueRing scatternet of Bluetooths. , 2003, , .		16

#	ARTICLE	IF	CITATIONS
73	A Fast Video-on-Demand Broadcasting Scheme for Popular Videos. IEEE Transactions on Broadcasting, 2004, 50, 120-125.	3.2	16
74	A jamming-based MAC protocol to improve the performance of wireless multihop ad-hoc networks. Wireless Communications and Mobile Computing, 2004, 4, 75-84.	1.2	16
75	Route Maintenance in a Wireless Mobile Ad Hoc Network. Telecommunication Systems, 2001, 18, 61-84.	2.5	15
76	Data broadcasting and seamless channel transition for highly-demanded videos. , 0, , .		14
77	Algebraic foundations and broadcasting algorithms for wormhole-routed all-port tori. IEEE Transactions on Computers, 2000, 49, 246-258.	3.4	14
78	An architecture for power-saving communications in a wireless mobile ad hoc network based on location information. Microprocessors and Microsystems, 2004, 28, 457-465.	2.8	14
79	Cross-Layer, Energy-Efficient Design for Supporting Continuous Queries in Wireless Sensor Networks: A Quorum-Based Approach. Wireless Personal Communications, 2009, 51, 411-426.	2.7	13
80	Using Mobile Mules for Collecting Data from an Isolated Wireless Sensor Network. , 2010, , .		13
81	Route maintenance in a wireless mobile ad hoc network. , 0, , .		12
82	Design and implementation of two-tier mobile ad hoc networks with seamless roaming and load-balancing routing capability. , 0, , .		12
83	Intelligent medium access for mobile ad hoc networks with busy tones and power control. , 0, , .		9
84	An efficient MAC protocol for multi-channel mobile ad hoc networks based on location information. International Journal of Communication Systems, 2006, 19, 877-896.	2.5	9
85	Two-Way Beacon Scheduling in ZigBee Tree-Based Wireless Sensor Networks. , 2008, , .		9
86	Range-Free Mobile Actor Relocation in a Two-Tiered Wireless Sensor and Actor Network. ACM Transactions on Sensor Networks, 2016, 12, 1-40.	3.6	8
87	An Euler-path-based multicasting model for wormhole-routed networks with multi-destination capability. , 0, , .		7
88	Achieving fault-tolerant multicast in injured wormhole-routed tori and meshes based on Euler path construction. IEEE Transactions on Computers, 1999, 48, 1282-1296.	3.4	7
89	A borrow-and-return model to reduce client waiting time for broadcasting-based vod services. IEEE Transactions on Broadcasting, 2003, 49, 162-169.	3.2	7
90	A jamming-based MAC protocol for wireless multihop ad hoc networks. , 2003, , .		7

#	ARTICLE	IF	CITATIONS
91	Efficient multicast in wormhole-routed 2D mesh/torus multicomputers: a network-partitioning approach. , 0, , .		6
92	A traveling salesman mobility model and its location tracking in PCS networks. , 0, , .		6
93	Cyber-physical handshake. Computer Communication Review, 2011, 41, 472-473.	1.8	6
94	An Euler-path-based multicasting model for wormhole-routed networks: its applications to damaged 2D Tori and meshes. , 0, , .		5
95	Toward optimal complete exchange on wormhole-routed tori. IEEE Transactions on Computers, 1999, 48, 1065-1082.	3.4	5
96	A Two-tier heterogeneous mobile ad hoc network architecture and its load-balance routing problem. , 2003, , .		5
97	On termination detection protocols in a mobile distributed computing environment. , 0, , .		4
98	Balancing traffic load for multi-node multicast in a wormhole 2D torus/mesh. , 0, , .		4
99	A novel interference-resolving algorithm to support asymmetric services in TDD-CDMA systems with directional antennas. , 0, , .		4
100	Route throughput analysis for mobile multi-rate wireless ad hoc networks. , 0, , .		4
101	A Probabilistic Signal-Strength-Based Evaluation Methodology for Sensor Network Deployment. , 0, , .		4
102	Dynamic water gate assignment scheme for data aggregation in long-thin sensor networks. , 2010, , .		4
103	Efficient single-node broadcast in switched-based network of workstations with network partitioning. , 0, , .		2
104	On topology improvement of a packet radio network by power control. IEEE Transactions on Vehicular Technology, 2003, 52, 985-998.	6.3	2
105	Interference analysis of TDD-CDMA systems with directional antennas. , 2003, , .		2
106	Efficient single-node broadcast in wormhole-routed multicomputers: a network-partitioning approach. , 0, , .		1
107	Multi-node broadcasting in hypercubes and star graphs. , 0, , .		1
108	An efficient link polling policy by pattern matching for Bluetooth piconets. , 2003, , .		1

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109	An improved packet collision analysis for multi-Bluetooth piconets considering frequency-hopping guard time effect. , 2003, , .		1
110	Adaptive Selection Combining for Soft Handover in OVFS W-CDMA Systems. IEEE Communications Letters, 2004, 8, 656-658.	4.1	1
111	An efficient scheme for embedding a ring into an injured hypercube with both faulty links and faulty nodes. , 0, , .		0
112	An enhanced 2D buddy strategy for submesh allocation in mesh networks. , 0, , .		0
113	Embedding of congestion-free complete binary trees with dilation two in star graphs. , 0, , .		0
114	Near-optimal broadcast in all-port wormhole-routed 3D tori with dimension-ordered routing. , 0, , .		0
115	Algebraic foundations and broadcasting algorithms for wormhole-routed all-port tori. , 0, , .		0
116	Circuit-Switched Broadcasting in Multi-Port Multi-Dimensional Torus Networks. Journal of Supercomputing, 2001, 20, 217-241.	3.6	0
117	MR-FQ: a fair scheduling algorithm for wireless networks with variable transmission rates. , 0, , .		0
118	Controlling the fluid factors of an environment by sensor and actuator networks. Pervasive and Mobile Computing, 2016, 27, 106-115.	3.3	0
119	Sensor Calibration for Floor Detection by D2D Communications. , 2017, , .		0
120	Energy Conservation Protocols for Wireless Ad Hoc Networks. , 2007, , 371-398.		0
121	Multi-node broadcasting in a wormhole-routed 2-D torus using an aggregation-then-distribution strategy. , 0, , .		0