

Yu-Chee Tseng

List of Publications by Year in descending order

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121
papers

9,578
citations

101543

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69
g-index

121
all docs

121
docs citations

121
times ranked

4411
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensor Calibration for Floor Detection by D2D Communications. , 2017, , .		0
2	Controlling the fluid factors of an environment by sensor and actuator networks. Pervasive and Mobile Computing, 2016, 27, 106-115.	3.3	0
3	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
4	A Framework for Simultaneous Message Broadcasting Using CDMA-Based Visible Light Communications. IEEE Sensors Journal, 2015, 15, 6819-6827.	4.7	33
5	Opportunistic data collection for disconnected wireless sensor networks by mobile mules. Ad Hoc Networks, 2013, 11, 1150-1164.	5.5	35
6	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
7	Angle Object Coverage Problem in a Wireless Sensor Network. IEEE Sensors Journal, 2012, 12, 3408-3416.	4.7	30
8	Mobility management algorithms and applications for mobile sensor networks. Wireless Communications and Mobile Computing, 2012, 12, 7-21.	1.2	80
9	From wireless sensor networks towards cyber physical systems. Pervasive and Mobile Computing, 2011, 7, 397-413.	3.3	291
10	An Infrastructure-less Framework for Preventing Rear-End Collisions by Vehicular Sensor Networks. IEEE Communications Letters, 2011, 15, 358-360.	4.1	37
11	Cyber-physical handshake. Computer Communication Review, 2011, 41, 472-473.	1.8	6
12	Using Mobile Mules for Collecting Data from an Isolated Wireless Sensor Network. , 2010, , .		13
13	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
14	Dynamic water gate assignment scheme for data aggregation in long-thin sensor networks. , 2010, , .		4
15	Data Gathering by Mobile Mules in a Spatially Separated Wireless Sensor Network. , 2009, , .		19
16	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
17	The Orphan Problem in ZigBee Wireless Networks. IEEE Transactions on Mobile Computing, 2009, 8, 1573-1584.	5.8	74
18	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

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19	Quick convergecast in ZigBee beacon-enabled tree-based wireless sensor networks. Computer Communications, 2008, 31, 999-1011.	5.1	59
20	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
21	Efficient Placement and Dispatch of Sensors in a Wireless Sensor Network. IEEE Transactions on Mobile Computing, 2008, 7, 262-274.	5.8	179
22	Two-Way Beacon Scheduling in ZigBee Tree-Based Wireless Sensor Networks. , 2008, , .		9
23	Address Assignment and Routing Schemes for ZigBee-Based Long-Thin Wireless Sensor Networks. IEEE Vehicular Technology Conference, 2008, , .	0.4	44
24	A WSN-Based Intelligent Light Control System Considering User Activities and Profiles. IEEE Sensors Journal, 2008, 8, 1710-1721.	4.7	151
25	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
26	THE COVERAGE PROBLEM IN THREE-DIMENSIONAL WIRELESS SENSOR NETWORKS. Journal of Interconnection Networks, 2007, 08, 209-227.	1.0	80
27	Distributed protocols for ensuring both coverage and connectivity of a wireless sensor network. ACM Transactions on Sensor Networks, 2007, 3, 5.	3.6	103
28	iMouse: An Integrated Mobile Surveillance and Wireless Sensor System. Computer, 2007, 40, 60-66.	1.1	121
29	Energy Conservation Protocols for Wireless Ad Hoc Networks. , 2007, , 371-398.		0
30	Efficient in-network moving object tracking in wireless sensor networks. IEEE Transactions on Mobile Computing, 2006, 5, 1044-1056.	5.8	190
31	Wireless Sensor Networks for Emergency Navigation. Computer, 2006, 39, 55-62.	1.1	194
32	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
33	Decentralized energy-conserving and coverage-preserving protocols for wireless sensor networks. ACM Transactions on Sensor Networks, 2006, 2, 182-187.	3.6	25
34	Quorum-Based Asynchronous Power-Saving Protocols for IEEE 802.11 Ad Hoc Networks. Mobile Networks and Applications, 2005, 10, 169-181.	3.3	180
35	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
36	The Coverage Problem in a Wireless Sensor Network. Mobile Networks and Applications, 2005, 10, 519-528.	3.3	507

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37	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
38	Reducing internal and external fragmentations of OVFS codes in WCDMA systems with multiple codes. IEEE Transactions on Wireless Communications, 2005, 4, 1516-1526.	9.2	39
39	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
40	A Fast Video-on-Demand Broadcasting Scheme for Popular Videos. IEEE Transactions on Broadcasting, 2004, 50, 120-125.	3.2	16
41	A Priority MAC Protocol to Support Real-Time Traffic in Ad Hoc Networks. Wireless Networks, 2004, 10, 61-69.	3.0	72
42	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
43	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
44	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
45	Seamless Channel Transition for the Staircase Video Broadcasting Scheme. IEEE/ACM Transactions on Networking, 2004, 12, 559-571.	3.8	24
46	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
47	Adaptive Selection Combining for Soft Handover in OVFS W-CDMA Systems. IEEE Communications Letters, 2004, 8, 656-658.	4.1	1
48	On topology improvement of a packet radio network by power control. IEEE Transactions on Vehicular Technology, 2003, 52, 985-998.	6.3	2
49	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
50	Power-saving protocols for IEEE 802.11-based multi-hop ad hoc networks. Computer Networks, 2003, 43, 317-337.	5.1	267
51	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
52	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
53	Collision analysis for a multi-Bluetooth picocells environment. IEEE Communications Letters, 2003, 7, 475-477.	4.1	33
54	On route lifetime in multihop mobile ad hoc networks. IEEE Transactions on Mobile Computing, 2003, 2, 366-376.	5.8	73

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55	A jamming-based MAC protocol for wireless multihop ad hoc networks. , 2003, , .		7
56	An efficient link polling policy by pattern matching for Bluetooth piconets. , 2003, , .		1
57	Formation, routing, and maintenance protocols for the BlueRing scatternet of Bluetooths. , 2003, , .		16
58	Quorum-based asynchronous power-saving protocols for IEEE 802.11 ad hoc networks. , 2003, , .		31
59	A Two-tier heterogeneous mobile ad hoc network architecture and its load-balance routing problem. , 2003, , .		5
60	An improved packet collision analysis for multi-Bluetooth piconets considering frequency-hopping guard time effect. , 2003, , .		1
61	Interference analysis of TDD-CDMA systems with directional antennas. , 2003, , .		2
62	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
63	Code placement and replacement strategies for wideband CDMA OVSF code tree management. IEEE Transactions on Mobile Computing, 2002, 1, 293-302.	5.8	101
64	An adaptive sniff scheduling scheme for power saving in Bluetooth. IEEE Wireless Communications, 2002, 9, 92-103.	9.0	24
65	Data hiding in 2-color images. IEEE Transactions on Computers, 2002, 51, 873-880.	3.4	63
66	A recursive frequency-splitting scheme for broadcasting hot videos in VOD service. IEEE Transactions on Communications, 2002, 50, 1348-1355.	7.8	98
67	A secure data hiding scheme for binary images. IEEE Transactions on Communications, 2002, 50, 1227-1231.	7.8	176
68	Dynamic channel allocation with location awareness for multi-hop mobile ad hoc networks. Computer Communications, 2002, 25, 676-688.	5.1	20
69	The Broadcast Storm Problem in a Mobile Ad Hoc Network. Wireless Networks, 2002, 8, 153-167.	3.0	1,100
70	A Multi-Path QoS Routing Protocol in a Wireless Mobile Ad Hoc Network. Telecommunication Systems, 2002, 19, 329-347.	2.5	38
71	GRID: A Fully Location-Aware Routing Protocol for Mobile Ad Hoc Networks. Telecommunication Systems, 2001, 18, 37-60.	2.5	310
72	Route Maintenance in a Wireless Mobile Ad Hoc Network. Telecommunication Systems, 2001, 18, 61-84.	2.5	15

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73	Circuit-Switched Broadcasting in Multi-Port Multi-Dimensional Torus Networks. Journal of Supercomputing, 2001, 20, 217-241.	3.6	0
74	Data broadcasting and seamless channel transition for highly demanded videos. IEEE Transactions on Communications, 2001, 49, 863-874.	7.8	37
75	Algebraic foundations and broadcasting algorithms for wormhole-routed all-port tori. IEEE Transactions on Computers, 2000, 49, 246-258.	3.4	14
76	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
77	The broadcast storm problem in a mobile ad hoc network. , 1999, , .		1,981
78	Congestion-free, dilation-2 embedding of complete binary trees into star graphs. Networks, 1999, 33, 221-231.	2.7	17
79	Efficient broadcasting in wormhole-routed multicomputers: a network-partitioning approach. IEEE Transactions on Parallel and Distributed Systems, 1999, 10, 44-61.	5.6	72
80	Toward optimal complete exchange on wormhole-routed tori. IEEE Transactions on Computers, 1999, 48, 1065-1082.	3.4	5
81	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
82	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
83	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
84	A dilated-diagonal-based scheme for broadcast in a wormhole-routed 2D torus. IEEE Transactions on Computers, 1997, 46, 947-952.	3.4	20
85	Toward optimal broadcast in a star graph using multiple spanning trees. IEEE Transactions on Computers, 1997, 46, 593-599.	3.4	25
86	Secure and invisible data hiding in 2-color images. , 0, , .		22
87	Efficient single-node broadcast in wormhole-routed multicomputers: a network-partitioning approach. , 0, , .		1
88	Efficient multicast in wormhole-routed 2D mesh/torus multicomputers: a network-partitioning approach. , 0, , .		6
89	An efficient scheme for embedding a ring into an injured hypercube with both faulty links and faulty nodes. , 0, , .		0
90	An enhanced 2D buddy strategy for submesh allocation in mesh networks. , 0, , .		0

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91	Multi-node broadcasting in hypercubes and star graphs. , 0, , .		1
92	An Euler-path-based multicasting model for wormhole-routed networks: its applications to damaged 2D Tori and meshes. , 0, , .		5
93	Embedding of congestion-free complete binary trees with dilation two in star graphs. , 0, , .		0
94	Near-optimal broadcast in all-port wormhole-routed 3D tori with dimension-ordered routing. , 0, , .		0
95	An Euler-path-based multicasting model for wormhole-routed networks with multi-destination capability. , 0, , .		7
96	On termination detection protocols in a mobile distributed computing environment. , 0, , .		4
97	Algebraic foundations and broadcasting algorithms for wormhole-routed all-port tori. , 0, , .		0
98	Intelligent medium access for mobile ad hoc networks with busy tones and power control. , 0, , .		9
99	Data broadcasting and seamless channel transition for highly-demanded videos. , 0, , .		14
100	Route maintenance in a wireless mobile ad hoc network. , 0, , .		12
101	A secure data hiding scheme for two-color images. , 0, , .		33
102	Balancing traffic load for multi-node multicast in a wormhole 2D torus/mesh. , 0, , .		4
103	A new multi-channel MAC protocol with on-demand channel assignment for multi-hop mobile ad hoc networks. , 0, , .		311
104	Efficient single-node broadcast in switched-based network of workstations with network partitioning. , 0, , .		2
105	Adaptive approaches to relieving broadcast storms in a wireless multihop mobile ad hoc network. , 0, , .		50
106	Increasing the throughput of multihop packet radio networks with power adjustment. , 0, , .		16
107	Code placement and replacement strategies for wideband CDMA OVSF code tree management. , 0, , .		47
108	A traveling salesman mobility model and its location tracking in PCS networks. , 0, , .		6

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109	A TDMA-based bandwidth reservation protocol for QoS routing in a wireless mobile ad hoc network. , 0, , .		73
110	Power-saving protocols for IEEE 802.11-based multi-hop ad hoc networks. , 0, , .		105
111	A novel interference-resolving algorithm to support asymmetric services in TDD-CDMA systems with directional antennas. , 0, , .		4
112	Mobile Ad Hoc Networks and Routing Protocols. , 0, , 371-392.		22
113	Reducing internal and external fragmentations of OVSF codes in WCDMA systems with multiple codes. , 0, , .		17
114	Design and implementation of two-tier mobile ad hoc networks with seamless roaming and load-balancing routing capability. , 0, , .		12
115	Structures for in-network moving object tracking in wireless sensor networks. , 0, , .		31
116	The coverage problem in three-dimensional wireless sensor networks. , 0, , .		56
117	Route throughput analysis for mobile multi-rate wireless ad hoc networks. , 0, , .		4
118	A Probabilistic Signal-Strength-Based Evaluation Methodology for Sensor Network Deployment. , 0, , .		4
119	Efficient Deployment Algorithms for Ensuring Coverage and Connectivity of Wireless Sensor Networks. , 0, , .		139
120	MR-FQ: a fair scheduling algorithm for wireless networks with variable transmission rates. , 0, , .		0
121	Multi-node broadcasting in a wormhole-routed 2-D torus using an aggregation-then-distribution strategy. , 0, , .		0