Chien-Fu Cheng

List of Publications by Year
in descending order

44 papers	458 citations	840776 11 h-index	752698 20 g-index
44 all docs	44 docs citations	44 times ranked	475 citing authors

#	Article	IF	Citations
1	Data Gathering in Wireless Sensor Networks: A Combine–TSP–Reduce Approach. IEEE Transactions on Vehicular Technology, 2016, 65, 2309-2324.	6.3	58
2	Data gathering problem with the data importance consideration in Underwater Wireless Sensor Networks. Journal of Network and Computer Applications, 2017, 78, 300-312.	9.1	57
3	Distributed Barrier Coverage in Wireless Visual Sensor Networks With eta-QoM. IEEE Sensors Journal, 2012, 12, 1726-1735.	4.7	49
4	The Target-Barrier Coverage Problem in Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2018, 17, 1216-1232.	5.8	41
5	A density-barrier construction algorithm with minimum total movement in mobile WSNs. Computer Networks, 2014, 62, 208-220.	5.1	24
6	Incrementally updating the high average-utility patterns with pre-large concept. Applied Intelligence, 2020, 50, 3788-3807.	5.3	23
7	Fault-Tolerance Mechanisms for Software-Defined Internet of Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3859-3868.	8.0	18
8	A Carrier-Based Sensor Deployment Algorithm for Perception Layer in the IoT Architecture. IEEE Sensors Journal, 2020, 20, 10295-10305.	4.7	17
9	Incrementally Updating the Discovered High Average-Utility Patterns With the Pre-Large Concept. IEEE Access, 2020, 8, 66788-66798.	4.2	15
10	Mobile Data Gathering With Bounded Relay in Wireless Sensor Networks. IEEE Internet of Things Journal, 2018, 5, 3891-3907.	8.7	14
11	An Energy-Balanced and Timely Self-Relocation Algorithm for Grid-Based Mobile WSNs. IEEE Sensors Journal, 2015, 15, 4184-4193.	4.7	12
12	A consensus protocol for unmanned aerial vehicle networks in the presence of Byzantine faults. Computers and Electrical Engineering, 2022, 99, 107774.	4.8	11
13	Eventual strong consensus with fault detection in the presence of dual failure mode on processors under dynamic networks. Journal of Network and Computer Applications, 2012, 35, 1260-1276.	9.1	10
14	Data Gathering With Minimum Number of Relay Packets in Wireless Sensor Networks. IEEE Sensors Journal, 2017, 17, 7196-7208.	4.7	10
15	Encircled Belt-Barrier Coverage in Wireless Visual Sensor Networks. Pervasive and Mobile Computing, 2017, 38, 233-256.	3.3	10
16	The Barrier-Breach Problem of Barrier Coverage in Wireless Sensor Networks. IEEE Communications Letters, 2017, 21, 2262-2265.	4.1	8
17	Asynchronous consensus protocol for the unreliable un-fully connected network. Operating Systems Review (ACM), 2003, 37, 43-54.	1.9	7
18	Convergecast in ZigBee tree-based wireless sensor networks. , 2013, , .		7

#	Article	IF	Citations
19	The Deterministic Sensor Deployment Problem for Barrier Coverage in WSNs With Irregular Shape Areas. IEEE Sensors Journal, 2022, 22, 2899-2911.	4.7	7
20	Efficient multicasting agreement protocol. Computer Standards and Interfaces, 2004, 26, 93-111.	5.4	6
21	Energy-balanced hole-movement mechanism for temporal full-coverage in mobile WSNs. , 2010, , .		4
22	From immediate agreement to eventual agreement: early stopping agreement protocol for dynamic networks with malicious faulty processors. Journal of Supercomputing, 2012, 62, 874-894.	3.6	4
23	A recursive Byzantine-resilient protocol. Journal of Network and Computer Applications, 2015, 48, 87-98.	9.1	4
24	Trail-based routing algorithms for WSNs with uncontrolled sink mobility. Computer Communications, 2017, 106, 57-74.	5.1	4
25	Reaching Consensus with Byzantine Faulty Controllers in Software-Defined Networks. Wireless Communications and Mobile Computing, 2021, 2021, 1-9.	1.2	4
26	The Carrier-Based Sensor Deployment in Linear IWSNs With Return/Non-Return Branches. IEEE Sensors Journal, 2022, 22, 6175-6186.	4.7	4
27	The anatomy study of server-initial agreement for general hierarchy wired/wireless networks. Computer Standards and Interfaces, 2009, 31, 219-226.	5.4	3
28	Data Gathering in Wireless Sensor Networks with Uncontrolled Sink Mobility. , 2016, , .		3
29	InstantGaming: Playing somatosensory games using smartwatches and portable devices. , 2017, , .		3
30	The Energy Replenishment Problem in Mobile WRSNs. , 2018, , .		3
31	A Malicious-Resilient Protocol for Consistent Scheduling Problem in the Cloud Computing Environment. Computer Journal, 2015, 58, 315-330.	2.4	2
32	Barrier coverage in Wireless Visual Sensor Networks with importance of image consideration. , 2015, , .		2
33	The $$k$$ k -Set consensus problem with weight consideration. Journal of Supercomputing, 2015, 71, 144-161.	3.6	2
34	Mobile sensor relocation problem: Finding the optimal (nearest) redundant sensor with low message overhead. Computer Networks, 2015, 91, 407-424.	5.1	2
35	The robot-assisted sensor deployment problem in Wireless Sensor Networks. , 2017, , .		2
36	A Hole-Bypassing Routing Algorithm for WANETs. , 2017, , .		2

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37	The harmonized consensus protocol in distributed systems. Journal of Supercomputing, 2019, 75, 7690-7722.	3.6	2
38	Multi-agent schema of Mobile IP protocol for mobile environment. Operating Systems Review (ACM), 2005, 39, 46-65.	1.9	1
39	Belt-barrier construction algorithm for WVSNs. , 2012, , .		1
40	Obtaining consistent good/bad plan set in the presence of faults. , 2013, , .		1
41	A Flexible Consensus Protocol for Distributed Systems. IEEE Access, 2019, 7, 90453-90464.	4.2	1
42	Server-Initiated Byzantine Agreement over Two-Level Combined Wired/Wireless Networks. , 2006, , .		0
43	A new direction for solving the consensus problem in networked systems. , 2015, , .		0
44	A Fault-Tolerant Consensus Protocol for Software-Defined Networks. , 2019, , .		0