

Vehbi C Gungor

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

8,067
citations

172457

29
h-index

138484

58
g-index

78
all docs

78
docs citations

78
times ranked

7508
citing authors

#	ARTICLE	IF	CITATIONS
1	Smart Grid Technologies: Communication Technologies and Standards. IEEE Transactions on Industrial Informatics, 2011, 7, 529-539.	11.3	2,067
2	Industrial Wireless Sensor Networks: Challenges, Design Principles, and Technical Approaches. IEEE Transactions on Industrial Electronics, 2009, 56, 4258-4265.	7.9	1,282
3	Opportunities and Challenges of Wireless Sensor Networks in Smart Grid. IEEE Transactions on Industrial Electronics, 2010, 57, 3557-3564.	7.9	1,069
4	A Survey on Smart Grid Potential Applications and Communication Requirements. IEEE Transactions on Industrial Informatics, 2013, 9, 28-42.	11.3	920
5	Communication and Coordination in Wireless Sensor and Actor Networks. IEEE Transactions on Mobile Computing, 2007, 6, 1116-1129.	5.8	183
6	A Cross-Layer QoS-Aware Communication Framework in Cognitive Radio Sensor Networks for Smart Grid Applications. IEEE Transactions on Industrial Informatics, 2013, 9, 1477-1485.	11.3	163
7	Smart Grid and Smart Homes: Key Players and Pilot Projects. IEEE Industrial Electronics Magazine, 2012, 6, 18-34.	2.6	161
8	Online and Remote Motor Energy Monitoring and Fault Diagnostics Using Wireless Sensor Networks. IEEE Transactions on Industrial Electronics, 2009, 56, 4651-4659.	7.9	160
9	A Real-Time and Reliable Transport (RT) ² Protocol for Wireless Sensor and Actor Networks. IEEE/ACM Transactions on Networking, 2008, 16, 359-370.	3.8	152
10	Packet Size Optimization in Wireless Sensor Networks for Smart Grid Applications. IEEE Transactions on Industrial Electronics, 2017, 64, 2392-2401.	7.9	147
11	Cloud Computing for Smart Grid applications. Computer Networks, 2014, 70, 312-329.	5.1	135
12	An autonomous wireless sensor network deployment system using mobile robots for human existence detection in case of disasters. Ad Hoc Networks, 2014, 13, 54-68.	5.5	130
13	A survey on deployment techniques, localization algorithms, and research challenges for underwater acoustic sensor networks. International Journal of Communication Systems, 2017, 30, e3350.	2.5	111
14	Packet Size Optimization for Lifetime Maximization in Underwater Acoustic Sensor Networks. IEEE Transactions on Industrial Informatics, 2019, 15, 719-729.	11.3	74
15	EDHRP: Energy efficient event driven hybrid routing protocol for densely deployed wireless sensor networks. Journal of Network and Computer Applications, 2015, 58, 309-326.	9.1	68
16	QERP: Quality-of-Service (QoS) Aware Evolutionary Routing Protocol for Underwater Wireless Sensor Networks. IEEE Systems Journal, 2018, 12, 2066-2073.	4.6	68
17	Delay-sensitive and multimedia communication in cognitive radio sensor networks. Ad Hoc Networks, 2012, 10, 816-830.	5.5	66
18	Cognitive Radio Networks for Smart Grid Applications: A Promising Technology to Overcome Spectrum Inefficiency. IEEE Vehicular Technology Magazine, 2012, 7, 41-46.	3.4	66

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19	Wireless sensor networks for structure health monitoring: recent advances and future research directions. <i>Sensor Review</i> , 2011, 31, 261-276.	1.8	64
20	Structure health monitoring using wireless sensor networks on structural elements. <i>Ad Hoc Networks</i> , 2019, 82, 68-76.	5.5	52
21	Energy efficient and reliable data gathering using internet of software-defined mobile sinks for WSNs-based smart grid applications. <i>Computer Standards and Interfaces</i> , 2019, 66, 103341.	5.4	50
22	Wireless Sensor Networks for Smart Grid Applications: A Case Study on Link Reliability and Node Lifetime Evaluations in Power Distribution Systems. <i>International Journal of Distributed Sensor Networks</i> , 2013, 9, 796248.	2.2	48
23	A survey on information security threats and solutions for Machine to Machine (M2M) communications. <i>Journal of Parallel and Distributed Computing</i> , 2017, 109, 142-154.	4.1	42
24	Quality-of-service differentiation in single-path and multi-path routing for wireless sensor network-based smart grid applications. <i>Ad Hoc Networks</i> , 2014, 22, 43-60.	5.5	40
25	Channel-aware routing and priority-aware multi-channel scheduling for WSN-based smart grid applications. <i>Journal of Network and Computer Applications</i> , 2016, 71, 50-58.	9.1	39
26	Analysis of low power wireless links in smart grid environments. <i>Computer Networks</i> , 2013, 57, 1192-1203.	5.1	38
27	LRP: Link quality-aware queue-based spectral clustering routing protocol for underwater acoustic sensor networks. <i>International Journal of Communication Systems</i> , 2017, 30, e3257.	2.5	37
28	Comparison of QoS-aware single-path vs. multi-path routing protocols for image transmission in wireless multimedia sensor networks. <i>Ad Hoc Networks</i> , 2014, 19, 132-141.	5.5	36
29	Evaluation of Classification Algorithms, Linear Discriminant Analysis and a New Hybrid Feature Selection Methodology for the Diagnosis of Coronary Artery Disease. , 2018, , .		31
30	Capacity and spectrum-aware communication framework for wireless sensor network-based smart grid applications. <i>Computer Standards and Interfaces</i> , 2017, 53, 48-58.	5.4	30
31	Energy efficient multi-objective evolutionary routing scheme for reliable data gathering in Internet of underwater acoustic sensor networks. <i>Ad Hoc Networks</i> , 2019, 93, 101912.	5.5	30
32	On the interdependency between multi-channel scheduling and tree-based routing for WSNs in smart grid environments. <i>Computer Networks</i> , 2014, 65, 1-20.	5.1	29
33	Big Data acquired by Internet of Things-enabled industrial multichannel wireless sensors networks for active monitoring and control in the smart grid Industry 4.0. <i>Data in Brief</i> , 2021, 35, 106854.	1.0	27
34	CBI4.0: A cross-layer approach for big data gathering for active monitoring and maintenance in the manufacturing industry 4.0. <i>Journal of Industrial Information Integration</i> , 2021, 24, 100236.	6.4	27
35	Evaluations of different Simultaneous Localization and Mapping (SLAM) algorithms. , 2012, , .		26
36	A cross-layer design for QoS support in cognitive radio sensor networks for smart grid applications. , 2012, , .		26

#	ARTICLE	IF	CITATIONS
37	QoSRP: A Cross-layer QoS Channel-Aware Routing Protocol for the Internet of Underwater Acoustic Sensor Networks. <i>Sensors</i> , 2019, 19, 4762.	3.8	25
38	A new efficient error control algorithm for wireless sensor networks in smart grid. <i>Computer Standards and Interfaces</i> , 2019, 63, 27-42.	5.4	23
39	Performance evaluation of cloud computing platforms using statistical methods. <i>Computers and Electrical Engineering</i> , 2014, 40, 1636-1649.	4.8	21
40	On the Lifetime of Compressive Sensing Based Energy Harvesting in Underwater Sensor Networks. <i>IEEE Sensors Journal</i> , 2019, 19, 4680-4687.	4.7	20
41	Software Defined Communication Framework for Smart Grid to Meet Energy Demands in Smart Cities. , 2019, , .		18
42	Lifetime analysis of wireless sensor nodes in different smart grid environments. <i>Wireless Networks</i> , 2014, 20, 2053-2062.	3.0	17
43	A survey on packet size optimization for terrestrial, underwater, underground, and body area sensor networks. <i>International Journal of Communication Systems</i> , 2018, 31, e3572.	2.5	16
44	The impact of error control schemes on lifetime of energy harvesting wireless sensor networks in industrial environments. <i>Computer Standards and Interfaces</i> , 2020, 70, 103417.	5.4	16
45	Performance of MAC protocols for wireless sensor networks in harsh smart Grid environment. , 2013, , .		15
46	Efficient available energy monitoring in wireless sensor networks. <i>International Journal of Sensor Networks</i> , 2008, 3, 25.	0.4	14
47	Collecting smart meter data via public transportation buses. <i>IET Intelligent Transport Systems</i> , 2016, 10, 515-523.	3.0	14
48	Analyzing lifetime of energy harvesting underwater wireless sensor nodes. <i>International Journal of Communication Systems</i> , 2020, 33, e4214.	2.5	14
49	Wireless sensor network-based communication for cooperative simultaneous localization and mapping. <i>Computers and Electrical Engineering</i> , 2015, 41, 407-425.	4.8	13
50	Analysis of compressive sensing and energy harvesting for wireless multimedia sensor networks. <i>Ad Hoc Networks</i> , 2020, 103, 102164.	5.5	13
51	A deep learning approach with Bayesian optimization and ensemble classifiers for detecting denial of service attacks. <i>International Journal of Communication Systems</i> , 2020, 33, e4401.	2.5	12
52	A Multiobjective, Lion Mating Optimization Inspired Routing Protocol for Wireless Body Area Sensor Network Based Healthcare Applications. <i>Sensors</i> , 2019, 19, 5072.	3.8	11
53	QoS-aware LTE-A downlink scheduling algorithm: A case study on edge users. <i>International Journal of Communication Systems</i> , 2019, 32, e4066.	2.5	10
54	Communication related design considerations of WSN-aided Multi-Robot SLAM. , 2011, , .		9

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55	Analyzing lifetime of energy harvesting wireless multimedia sensor nodes in industrial environments. Computer Standards and Interfaces, 2018, 58, 109-117.	5.4	9
56	Ambient Energy Harvesting for Low Powered Wireless Sensor Network based Smart Grid Applications. , 2019, , .		9
57	On the performance of LTE downlink scheduling algorithms: A case study on edge throughput. Computer Standards and Interfaces, 2018, 59, 96-108.	5.4	8
58	A Novel Feature Design and Stacking Approach for Non-Technical Electricity Loss Detection. , 2018, , .		7
59	Realizing the Wireless Technology in Internet of Things (IoT). , 2018, , 173-192.		7
60	The effects of exploration strategies and communication models on the performance of cooperative exploration. Ad Hoc Networks, 2013, 11, 1931-1941.	5.5	6
61	Assessing Employee Attrition Using Classifications Algorithms. , 2020, , .		6
62	Short term electricity load forecasting: A case study of electric utility market in Turkey. , 2015, , .		5
63	Unmanned vehicle-aided automated meter reading. , 2011, , .		4
64	Mobile Robot Aided Self-Deploying Wireless Sensor Networks for Radiation Leak Detection. , 2012, , .		4
65	Node-Level Error Control Strategies for Prolonging the Lifetime of Wireless Sensor Networks. IEEE Sensors Journal, 2021, 21, 15386-15397.	4.7	4
66	A multi-channel distributed routing scheme for smart grid real-time critical event monitoring applications in the perspective of Industry 4.0. International Journal of Ad Hoc and Ubiquitous Computing, 2019, 32, 236.	0.5	4
67	QoS-aware downlink scheduling algorithm for LTE networks: A case study on edge users. , 2017, , .		3
68	QoS-Aware MAC protocols utilizing sectored antenna for wireless sensor networks-based smart grid applications. International Journal of Communication Systems, 2017, 30, e3168.	2.5	3
69	Performance analysis of Hamming code for WSN-based smart grid applications. Turkish Journal of Electrical Engineering and Computer Sciences, 2018, 26, 125-137.	1.4	3
70	Lifetime Analysis of Underwater Wireless Networks Concerning Privacy with Energy Harvesting and Compressive Sensing. , 2019, , .		3
71	Physical layer authentication for extending battery life. Ad Hoc Networks, 2021, 123, 102683.	5.5	3
72	Autonomous intruder detection system using wireless networked mobile robots. , 2012, , .		1

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73	Analysis of battery-powered sensor node lifetime for smart grid applications. , 2016, , .		1
74	Intelligent Anomaly Detection Techniques for Denial of Service Attacks. International Journal of Computer and Communication Engineering, 2018, 7, 20-31.	0.2	1
75	Operator User Management System Based on the TMF615 Standard. Journal of Network and Systems Management, 2016, 24, 161-188.	4.9	0
76	OFFER Referees Suggester for the Journal Editors. , 2019, , .		0
77	Mobile Sensor Networks: Theory, Control, Communication, and Computation Issues. International Journal of Distributed Sensor Networks, 2013, 9, 875702.	2.2	0