

Massimo Vecchio

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56
papers

1,455
citations

18
h-index

37
g-index

58
ext. papers

1,938
ext. citations

4.8
avg, IF

5.36
L-index

#	Paper	IF	Citations
56	Applications of Blockchains in the Internet of Things: A Comprehensive Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2019 , 21, 1676-1717	37.1	296
55	Blockchain-based traceability in Agri-Food supply chain management: A practical implementation 2018 ,		225
54	A Simple Algorithm for Data Compression in Wireless Sensor Networks. <i>IEEE Communications Letters</i> , 2008 , 12, 411-413	3.8	135
53	An Efficient Lossless Compression Algorithm for Tiny Nodes of Monitoring Wireless Sensor Networks. <i>Computer Journal</i> , 2009 , 52, 969-987	1.3	114
52	Passban IDS: An Intelligent Anomaly-Based Intrusion Detection System for IoT Edge Devices. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 6882-6897	10.7	81
51	Enabling energy-efficient and lossy-aware data compression in wireless sensor networks by multi-objective evolutionary optimization. <i>Information Sciences</i> , 2010 , 180, 1924-1941	7.7	81
50	Adaptive Lossless Entropy Compressors for Tiny IoT Devices. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 1088-1100	9.6	39
49	A two-objective evolutionary approach based on topological constraints for node localization in wireless sensor networks. <i>Applied Soft Computing Journal</i> , 2012 , 12, 1891-1901	7.5	36
48	Improving area coverage of wireless sensor networks via controllable mobile nodes: A greedy approach. <i>Journal of Network and Computer Applications</i> , 2015 , 48, 1-13	7.9	34
47	Reducing Power Consumption in Wireless Sensor Networks Using a Novel Approach to Data Aggregation. <i>Computer Journal</i> , 2007 , 51, 227-239	1.3	33
46	DEEP: Density-based proactive data dissemination protocol for wireless sensor networks with uncontrolled sink mobility. <i>Computer Communications</i> , 2010 , 33, 929-939	5.1	30
45	Cost-effective IoT devices as trustworthy data sources for a blockchain-based water management system in precision agriculture. <i>Computers and Electronics in Agriculture</i> , 2021 , 180, 105889	6.5	24
44	IRESE: An intelligent rare-event detection system using unsupervised learning on the IoT edge. <i>Engineering Applications of Artificial Intelligence</i> , 2019 , 84, 41-50	7.2	22
43	A Decentralized Peer-to-Peer Remote Health Monitoring System. <i>Sensors</i> , 2020 , 20,	3.8	22
42	The Day After Mirai: A Survey on MQTT Security Solutions After the Largest Cyber-attack Carried Out through an Army of IoT Devices 2017 ,		22
41	An effective Decision Support System for social media listening based on cross-source sentiment analysis models. <i>Engineering Applications of Artificial Intelligence</i> , 2019 , 78, 71-85	7.2	22
40	A novel heuristic approach for distance- and connectivity-based multihop node localization in wireless sensor networks. <i>Soft Computing</i> , 2013 , 17, 17-28	3.5	21

39	Smart Audio Sensors in the Internet of Things Edge for Anomaly Detection. <i>IEEE Access</i> , 2018 , 6, 67594-67610	7.5	18
38	A multi-objective evolutionary approach to image quality/compression trade-off in JPEG baseline algorithm. <i>Applied Soft Computing Journal</i> , 2010 , 10, 548-561	7.2	17
37	On the design of a novel two-objective harmony search approach for distance- and connectivity-based localization in wireless sensor networks. <i>Engineering Applications of Artificial Intelligence</i> , 2013 , 26, 669-676	1.9	16
36	Smart Cities via Data Aggregation. <i>Wireless Personal Communications</i> , 2014 , 76, 149-168	1.9	12
35	An Open IoT Platform to Promote Eco-Sustainable Innovation in Western Africa: Real Urban and Rural Testbeds. <i>Wireless Communications and Mobile Computing</i> , 2018 , 2018, 1-17		11
34	Improving energy efficiency in IoT with re-configurable virtual objects 2014 ,		11
33	Enabling a Blockchain-Based IoT Edge. <i>IEEE Internet of Things Magazine</i> , 2018 , 1, 24-29	3.5	10
32	A Fuzzy Approach to Data Aggregation to Reduce Power Consumption in Wireless Sensor Networks 2006 ,		9
31	Educational Big Data Mining: How to Enhance Virtual Learning Environments. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 681-690	0.4	8
30	A novel approach for internet traffic classification based on multi-objective evolutionary fuzzy classifiers 2017 ,		7
29	Fog Computing Architectures: A Reference for Practitioners. <i>IEEE Internet of Things Magazine</i> , 2019 , 2, 19-25	3.5	7
28	MQTT-Auth: a Token-based Solution to Endow MQTT with Authentication and Authorization Capabilities. <i>Journal of Communications Software and Systems</i> , 2018 , 14,	0.8	6
27	Integrating the IoT and Blockchain Technology for the Next Generation of Mining Inspection Systems.. <i>Sensors</i> , 2022 , 22,	3.8	6
26	Designing the Sensing as a Service Ecosystem for the Internet of Things. <i>IEEE Internet of Things Magazine</i> , 2018 , 1, 18-23	3.5	5
25	A greedy topology design to accelerate consensus in broadcast wireless sensor networks. <i>Information Processing Letters</i> , 2015 , 115, 408-413	0.8	5
24	A two-objective evolutionary approach to design lossy compression algorithms for tiny nodes of wireless sensor networks. <i>Evolutionary Intelligence</i> , 2010 , 3, 137-153	1.7	5
23	Towards Trusted Data on Decentralized IoT Applications: Integrating Blockchain in Constrained Devices 2020 ,		5
22	An Integrated Topology Control Framework to Accelerate Consensus in Broadcast Wireless Sensor Networks. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 7472-7485	9.6	5

21	A Blockchain-Based Approach To Enable Remote Sensing Trusted Data 2020 ,		4
20	Reconfiguration of environmental data compression parameters through cognitive IoT technologies 2013 ,		3
19	An Effective Metaheuristic Approach to Node Localization in Wireless Sensor Networks 2011 ,		3
18	On the application of a hybrid Harmony Search algorithm to node localization in anchor-based Wireless Sensor Networks 2011 ,		3
17	A Blockchain-Based Framework for IoT Data Monetization Services. <i>Computer Journal</i> , 2021 , 64, 195-210.	1.3	3
16	Supporting Intelligence in Disaggregated Open Radio Access Networks: Architectural Principles, AI/ML Workflow, and Use Cases. <i>IEEE Access</i> , 2022 , 10, 39580-39595	3.5	3
15	Learn by Examples How to Link the Internet of Things and the Cloud Computing Paradigms: A Fully Working Proof of Concept 2015 ,		2
14	A Multi-objective Evolutionary Approach to Data Compression in Wireless Sensor Networks 2009 ,		2
13	Rationale and Practical Assessment of a Fully Distributed Blockchain-based Marketplace of Fog/Edge Computing Resources 2020 ,		2
12	A Fully Open-Source Approach to Intelligent Edge Computing: AGILEW/Lesson. <i>Sensors</i> , 2021 , 21,	3.8	2
11	Characterization and Costs of Integrating Blockchain and IoT for Agri-Food Traceability Systems. <i>Systems</i> , 2022 , 10, 57	3	2
10	Exploiting Multi-Objective Evolutionary Algorithms for Designing Energy-Efficient Solutions to Data Compression and Node Localization in Wireless Sensor Networks. <i>Studies in Computational Intelligence</i> , 2013 , 227-255	0.8	1
9	Enabling Compression in Tiny Wireless Sensor Nodes 2011 ,		1
8	A k-Layer Self-Organizing Structure for Product Management in Stock-Based Networks 2010 ,		1
7	Solving the node localization problem in WSNs by a two-objective evolutionary algorithm and local descent 2011 ,		1
6	A study on the application of different two-objective evolutionary algorithms to the node localization problem in wireless sensor networks 2011 ,		1
5	MetaNChemo: A meta-heuristic neural-based framework for chemometric analysis. <i>Applied Soft Computing Journal</i> , 2020 , 97, 106712	7.5	1
4	Explainable Internet Traffic Classification. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4697	2.6	1

3	Design and Implementation of an Energy-Efficient Weather Station for Wind Data Collection. <i>Sensors</i> , 2021 , 21,	3.8	1
2	Benchmarking Constrained IoT Devices in Blockchain-Based Agri-Food Traceability Applications. <i>Lecture Notes in Networks and Systems</i> , 2022 , 212-221	0.5	1
1	Envisioning Tool Support for Designing Privacy-Aware Internet of Thing Applications. <i>IEEE Internet of Things Magazine</i> , 2021 , 4, 78-83	3.5	0