

Emanuele Lattanzi

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

838
citations

623734

14
h-index

552781

26
g-index

55
all docs

55
docs citations

55
times ranked

766
citing authors

#	ARTICLE	IF	CITATIONS
1	Energetic sustainability of routing algorithms for energy-harvesting wireless sensor networks. <i>Computer Communications</i> , 2007, 30, 2976-2986.	5.1	162
2	Avian soundscapes and cognitive landscapes: theory, application and ecological perspectives. <i>Landscape Ecology</i> , 2011, 26, 1257-1267.	4.2	87
3	Self-adapting maximum flow routing for autonomous wireless sensor networks. <i>Cluster Computing</i> , 2011, 14, 1-14.	5.0	59
4	Spatial and temporal variation of bird dawn chorus and successive acoustic morning activity in a Mediterranean landscape. <i>Bioacoustics</i> , 2015, 24, 269-288.	1.7	49
5	A Study on the Influence of Speed on Road Roughness Sensing: The SmartRoadSense Case. <i>Sensors</i> , 2017, 17, 305.	3.8	48
6	Low cost (audio) recording (LCR) for advancing soundscape ecology towards the conservation of sonic complexity and biodiversity in natural and urban landscapes. <i>Urban Ecosystems</i> , 2014, 17, 923-944.	2.4	41
7	A Review on Blockchain for the Internet of Medical Things: Definitions, Challenges, Applications, and Vision. <i>Future Internet</i> , 2020, 12, 208.	3.8	31
8	Machine Learning Techniques to Identify Unsafe Driving Behavior by Means of In-Vehicle Sensor Data. <i>Expert Systems With Applications</i> , 2021, 176, 114818.	7.6	26
9	Evaluation of human standing balance using wearable inertial sensors: A machine learning approach. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 94, 103812.	8.1	23
10	Bootstrap Based Uncertainty Propagation for Data Quality Estimation in Crowdsensing Systems. <i>IEEE Access</i> , 2017, 5, 1146-1155.	4.2	22
11	A Study on the Impact of Packet Length on Communication in Low Power Wireless Sensor Networks Under Interference. <i>IEEE Internet of Things Journal</i> , 2019, 6, 3820-3830.	8.7	21
12	Virtual Sense: A Java-Based Open Platform for Ultra-Low-Power Wireless Sensor Nodes. <i>International Journal of Distributed Sensor Networks</i> , 2012, 8, 154737.	2.2	20
13	Geospatial data aggregation and reduction in vehicular sensing applications: The case of road surface monitoring. , 2014, , .		20
14	Energetic sustainability of environmentally powered wireless sensor networks. , 2006, , .		19
15	Specification and analysis of power-managed systems. <i>Proceedings of the IEEE</i> , 2004, 92, 1308-1346.	21.3	18
16	A two-prong approach to energy-efficient WSNs: Wake-up receivers plus dedicated, model-based sensing. <i>Ad Hoc Networks</i> , 2016, 45, 1-12.	5.5	15
17	Exploring Artificial Neural Networks Efficiency in Tiny Wearable Devices for Human Activity Recognition. <i>Sensors</i> , 2022, 22, 2637.	3.8	15
18	Improving Machine Learning Identification of Unsafe Driver Behavior by Means of Sensor Fusion. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6417.	2.5	13

#	ARTICLE	IF	CITATIONS
19	A Sub-A Ultrasonic Wake-Up Trigger with Addressing Capability for Wireless Sensor Nodes. , 2013, 2013, 1-10.		12
20	Sensing road roughness via mobile devices: A study on speed influence. , 2015, , .		11
21	A Primâ€“Dijkstra Algorithm for Multihop Calibration of Networked Embedded Systems. IEEE Internet of Things Journal, 2021, 8, 11320-11328.	8.7	11
22	Design and simulation of power-aware scheduling strategies of streaming data in wireless LANs. , 2004, , .		8
23	Idleness as a resource in energy-neutral WSNs. , 2013, , .		8
24	Towards a true energetically sustainable WSN: A case study with prediction-based data collection and a wake-up receiver. , 2014, , .		8
25	A Scalable Multitasking Wireless Sensor Network Testbed for Monitoring Indoor Human Comfort. IEEE Access, 2018, 6, 17952-17967.	4.2	8
26	Run-Time Software Monitor of the Power Consumption of Wireless Network Interface Cards. Lecture Notes in Computer Science, 2004, , 352-361.	1.3	8
27	Implementing Energetically Sustainable Routing Algorithms for Autonomous WSNs. , 2007, , .		7
28	Hardware filtering of non-intended frames for energy optimisation in wireless sensor networks. International Journal of Sensor Networks, 2014, 15, 121.	0.4	7
29	A fast and accurate energy source emulator for wireless sensor networks. Eurasip Journal on Embedded Systems, 2017, 2016, .	1.2	7
30	Power-aware network swapping for wireless palmtop PCs. IEEE Transactions on Mobile Computing, 2006, 5, 571-582.	5.8	5
31	Supporting Preemptive Multitasking in Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2014, 10, 814510.	2.2	5
32	Tuning the Complexity of Photovoltaic Array Models to Meet Real-time Constraints of Embedded Energy Emulators. Energies, 2017, 10, 278.	3.1	5
33	Improving Java performance using dynamic method migration on FPGAs. International Journal of Embedded Systems, 2005, 1, 228.	0.3	4
34	Proximity services supporting network virtual memory in mobile devices. , 2004, , .		3
35	Experimental evaluation of the impact of packet length on wireless sensor networks subject to interference. Computer Networks, 2020, 167, 106986.	5.1	3
36	WSN Design for Unlimited Lifetime. , 0, , .		3

#	ARTICLE	IF	CITATIONS
37	Decentralising the Internet of Medical Things with Distributed Ledger Technologies and Off-Chain Storages: A Proof of Concept. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 80-90.	0.3	3
38	Self-adapting maxflow routing algorithm for WSNs. , 2008, , .		2
39	Randomized Gossip With Power of Two Choices for Energy Aware Distributed Averaging. IEEE Communications Letters, 2015, 19, 1410-1413.	4.1	2
40	Accelerating distributed averaging in sensor networks: Randomized gossip over virtual coordinates. , 2016, , .		2
41	An Acoustic Complexity Index Sensor for Underwater Applications. IEEE Sensors Journal, 2016, 16, 4043-4050.	4.7	2
42	Fast Distributed Consensus Through Path Averaging on Random Walks. Wireless Personal Communications, 2017, 96, 5865-5879.	2.7	2
43	Standing Balance Assessment by Measurement of Body Center of Gravity Using Smartphones. IEEE Access, 2020, 8, 96438-96448.	4.2	2
44	Java-based continuous browsing of remote maps from a wireless PDA: a feasibility study. , 0, , .		1
45	Power-aware network swapping for wireless palmtop PCs. , 0, , .		1
46	Dynamic Power Management Strategies Within the IEEE 802.11 Standard. Lecture Notes in Computer Science, 2005, , 190-214.	1.3	1
47	Ultra-low-power sensor nodes featuring a virtual runtime environment. , 2012, , .		1
48	A Hardware Compensation Mechanism for Embedded Energy Harvesting Emulation. IEEE Embedded Systems Letters, 2019, 11, 25-28.	1.9	1
49	In-Band Controllable Radio Interference Generation for Wireless Sensor Networks. IEEE Access, 2019, 7, 66955-66963.	4.2	1
50	Power-Aware Network Swapping for Wireless Palmtop PCS. , 2004, , 198-213.		0
51	A statistical geometry approach to distance estimation in wireless sensor networks. , 2013, , .		0
52	Exploiting ultra-low-power ultrasonic wake-up triggering for sensor nodes distance measurements. , 2013, , .		0
53	On the Stability of a Hardware Compensation Mechanism for Embedded Energy Harvesting Emulators. Computers, 2019, 8, 78.	3.3	0