Emanuele Lattanzi

List of Publications by Year
in descending order

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	Exploring Artificial Neural Networks Efficiency in Tiny Wearable Devices for Human Activity Recognition. Sensors, 2022, 22, 2637.	3.8	15
2	A Primâ€"Dijkstra Algorithm for Multihop Calibration of Networked Embedded Systems. IEEE Internet of Things Journal, 2021, 8, 11320-11328.	8.7	11
3	Machine Learning Techniques to Identify Unsafe Driving Behavior by Means of In-Vehicle Sensor Data. Expert Systems With Applications, 2021, 176, 114818.	7.6	26
4	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
5	Experimental evaluation of the impact of packet length on wireless sensor networks subject to interference. Computer Networks, 2020, 167, 106986.	5.1	3
6	Improving Machine Learning Identification of Unsafe Driver Behavior by Means of Sensor Fusion. Applied Sciences (Switzerland), 2020, 10, 6417.	2.5	13
7	Standing Balance Assessment by Measurement of Body Center of Gravity Using Smartphones. IEEE Access, 2020, 8, 96438-96448.	4.2	2
8	Evaluation of human standing balance using wearable inertial sensors: A machine learning approach. Engineering Applications of Artificial Intelligence, 2020, 94, 103812.	8.1	23
9	A Review on Blockchain for the Internet of Medical Things: Definitions, Challenges, Applications, and Vision. Future Internet, 2020, 12, 208.	3.8	31
10	A Hardware Compensation Mechanism for Embedded Energy Harvesting Emulation. IEEE Embedded Systems Letters, 2019, 11, 25-28.	1.9	1
11	In-Band Controllable Radio Interference Generation for Wireless Sensor Networks. IEEE Access, 2019, 7, 66955-66963.	4.2	1
12	On the Stability of a Hardware Compensation Mechanism for Embedded Energy Harvesting Emulators. Computers, 2019, 8, 78.	3.3	0
13	A Study on the Impact of Packet Length on Communication in Low Power Wireless Sensor Networks Under Interference. IEEE Internet of Things Journal, 2019, 6, 3820-3830.	8.7	21
14	A Scalable Multitasking Wireless Sensor Network Testbed for Monitoring Indoor Human Comfort. IEEE Access, 2018, 6, 17952-17967.	4.2	8
15	Bootstrap Based Uncertainty Propagation for Data Quality Estimation in Crowdsensing Systems. IEEE Access, 2017, 5, 1146-1155.	4.2	22
16	Fast Distributed Consensus Through Path Averaging on Random Walks. Wireless Personal Communications, 2017, 96, 5865-5879.	2.7	2
17	A fast and accurate energy source emulator for wireless sensor networks. Eurasip Journal on Embedded Systems, 2017, 2016, .	1.2	7
18	A Study on the Influence of Speed on Road Roughness Sensing: The SmartRoadSense Case. Sensors, 2017, 17, 305.	3.8	48

#	Article	IF	Citations
19	Tuning the Complexity of Photovoltaic Array Models to Meet Real-time Constraints of Embedded Energy Emulators. Energies, 2017, 10, 278.	3.1	5
20	A two-prong approach to energy-efficient WSNs: Wake-up receivers plus dedicated, model-based sensing. Ad Hoc Networks, 2016, 45, 1-12.	5.5	15
21	Accelerating distributed averaging in sensor networks: Randomized gossip over virtual coordinates. , 2016, , .		2
22	An Acoustic Complexity Index Sensor for Underwater Applications. IEEE Sensors Journal, 2016, 16, 4043-4050.	4.7	2
23	Sensing road roughness via mobile devices: A study on speed influence. , 2015, , .		11
24	Randomized Gossip With Power of Two Choices for Energy Aware Distributed Averaging. IEEE Communications Letters, 2015, 19, 1410-1413.	4.1	2
25	Spatial and temporal variation of bird dawn chorus and successive acoustic morning activity in a Mediterranean landscape. Bioacoustics, 2015, 24, 269-288.	1.7	49
26	Geospatial data aggregation and reduction in vehicular sensing applications: The case of road surface monitoring. , 2014, , .		20
27	Supporting Preemptive Multitasking in Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2014, 10, 814510.	2.2	5
28	Towards a true energetically sustainable WSN: A case study with prediction-based data collection and a wake-up receiver. , 2014, , .		8
29	Low cost (audio) recording (LCR) for advancing soundscape ecology towards the conservation of sonic complexity and biodiversity in natural and urban landscapes. Urban Ecosystems, 2014, 17, 923-944.	2.4	41
30	Hardware filtering of non-intended frames for energy optimisation in wireless sensor networks. International Journal of Sensor Networks, 2014, 15, 121.	0.4	7
31	A statistical geometry approach to distance estimation in wireless sensor networks. , 2013, , .		0
32	Exploiting ultra-low-power ultrasonic wake-up triggering for sensor nodes distance measurements. , 2013, , .		0
33	Idleness as a resource in energy-neutral WSNs. , 2013, , .		8
34	A Sub-A Ultrasonic Wake-Up Trigger with Addressing Capability for Wireless Sensor Nodes. , 2013, 2013, 1-10.		12
35	Virtual Sense: A Java-Based Open Platform for Ultra-Low-Power Wireless Sensor Nodes. International Journal of Distributed Sensor Networks, 2012, 8, 154737.	2.2	20
36	Ultra-low-power sensor nodes featuring a virtual runtime environment. , 2012, , .		1

#	Article	IF	Citations
37	Self-adapting maximum flow routing for autonomous wireless sensor networks. Cluster Computing, 2011, 14, 1-14.	5.0	59
38	Avian soundscapes and cognitive landscapes: theory, application and ecological perspectives. Landscape Ecology, 2011, 26, 1257-1267.	4.2	87
39	Self-adapting maxflow routing algorithm for WSNs. , 2008, , .		2
40	Implementing Energetically Sustainable Routing Algorithms for Autonomous WSNs. , 2007, , .		7
41	Energetic sustainability of routing algorithms for energy-harvesting wireless sensor networks. Computer Communications, 2007, 30, 2976-2986.	5.1	162
42	Power-aware network swapping for wireless palmtop PCs. IEEE Transactions on Mobile Computing, 2006, 5, 571-582.	5.8	5
43	Energetic sustainability of environmentally powered wireless sensor networks. , 2006, , .		19
44	Dynamic Power Management Strategies Within the IEEE 802.11 Standard. Lecture Notes in Computer Science, 2005, , 190-214.	1.3	1
45	Improving Java performance using dynamic method migration on FPGAs. International Journal of Embedded Systems, 2005, 1, 228.	0.3	4
46	Power-Aware Network Swapping for Wireless Palmtop PCS. , 2004, , 198-213.		0
47	Design and simulation of power-aware scheduling strategies of streaming data in wireless LANs. , 2004, , .		8
48	Proximity services supporting network virtual memory in mobile devices. , 2004, , .		3
49	Specification and analysis of power-managed systems. Proceedings of the IEEE, 2004, 92, 1308-1346.	21.3	18
50	Run-Time Software Monitor of the Power Consumption of Wireless Network Interface Cards. Lecture Notes in Computer Science, 2004, , 352-361.	1.3	8
51	Java-based continuous browsing of remote maps from a wireless PDA: a feasibility study. , 0, , .		1
52	Power-aware network swapping for wireless palmtop PCs. , 0, , .		1
53	WSN Design for Unlimited Lifetime. , 0, , .		3