Luca Vollero

List of Publications by Year in descending order

57 papers	694 citations	759233 12 h-index	642732 23 g-index
58 all docs	58 docs citations	58 times ranked	763 citing authors

#	Article	IF	Citations
1	Prediction of Glucose Concentration in Children with Type 1 Diabetes Using Neural Networks: An Edge Computing Application. Bioengineering, 2022, 9, 183.	3.5	8
2	Artificial Intelligence and Computer Aided Diagnosis in Chronic Low Back Pain: A Systematic Review. International Journal of Environmental Research and Public Health, 2022, 19, 5971.	2.6	23
3	Measuring the effects of first antiepileptic medication in Temporal Lobe Epilepsy: Predictive value of quantitative-EEG analysis. Clinical Neurophysiology, 2021, 132, 25-35.	1.5	38
4	Image sensors and VPU acceleration for data analysis and classification. , 2021, , .		1
5	Heart Rate Analysis through Smartphone Camera. , 2021, , .		1
6	A Multi-Sensor System for Sea Water Iodide Monitoring and Seafood Quality Assurance: Proof-of-Concept Study. Sensors, 2021, 21, 4464.	3.8	3
7	Edge computing optimization method. Analyzed task: crowd counting. , 2021, , .		0
8	Proof of Concept Study of an Electrochemical Sensor for Inland Water Monitoring with a Network Approach. Remote Sensing, 2021, 13, 4026.	4.0	2
9	Artificial Intelligence and Computer Vision in Low Back Pain: A Systematic Review. International Journal of Environmental Research and Public Health, 2021, 18, 10909.	2.6	32
10	TMS-EEG Biomarkers of Amnestic Mild Cognitive Impairment Due to Alzheimer's Disease: A Proof-of-Concept Six Years Prospective Study. Frontiers in Aging Neuroscience, 2021, 13, 737281.	3.4	14
11	GSP for Virtual Sensors in eHealth Applications. , 2020, , .		1
12	CO2 and O2 Detection by Electric Field Sensors. Sensors, 2020, 20, 668.	3.8	8
13	Venus by Botticelli and Her Pituitary Adenoma. Endocrine Practice, 2019, 25, 1067-1073.	2.1	1
14	Optimal joint load balancing and EDCA configuration of IEEE 802.11 wireless hotspots. International Journal of Communication Systems, 2018, 31, e3455.	2.5	3
15	A Gas Sensor with BLE connectivity for Wearable Applications â€. Proceedings (mdpi), 2018, 2, 765.	0.2	5
16	An Open-Source Smart Sensor Architecture for Edge Computing in IoT Applications. Proceedings (mdpi), 2018, 2, 955.	0.2	6
17	Message from the SIS-SS 2018 Workshop Organizers. , 2018, , .		0
18	A Mobile App for the Remote Monitoring and Assistance of Patients with Parkinson's Disease and their Caregivers. , 2018, 2018, 2909-2912.		2

#	Article	IF	Citations
19	A Sensor System for the Monitoring of Production Processes of Low FODMAP Food. Proceedings (mdpi), 2018, 2, 761.	0.2	1
20	Advances in the Electronics for Cyclic Voltammetry: the Case of Gas Detection by Using Microfabricated Electrodes. Frontiers in Chemistry, 2018, 6, 327.	3.6	12
21	A modular telerehabilitation architecture for upper limb robotic therapy. Advances in Mechanical Engineering, 2017, 9, 168781401668725.	1.6	4
22	Age-related changes of cortical excitability and connectivity in healthy humans: non-invasive evaluation of sensorimotor network by means of TMS-EEG. Neuroscience, 2017, 357, 255-263.	2.3	42
23	Age related differences in functional synchronization of EEG activity as evaluated by means of TMS-EEG coregistrations. Neuroscience Letters, 2017, 647, 141-146.	2.1	30
24	LoRaWAN as an e-Health Communication Technology. , 2017, , .		31
25	An integrated system for the monitoring of therapy and drug's side effects in Lymphoproliferative disorders. , 2017, 2017, 2672-2675.		1
26	Sensorimotor cortex excitability and connectivity in Alzheimer's disease: A TMS-EEG Co-registration study. Human Brain Mapping, 2016, 37, 2083-2096.	3.6	84
27	Optimal weighted averaging of event related activity from acquisitions with artifacts. , 2016, 2016, 977-980.		0
28	OpenCAPWAP v2.0: the new open-source implementation of the CAPWAP protocol. International Journal of Network Management, 2016, 26, 537-552.	2.2	1
29	Neurophysiological features of motor cortex excitability and plasticity in Subcortical Ischemic Vascular Dementia: A TMS mapping study. Clinical Neurophysiology, 2015, 126, 906-913.	1.5	39
30	Does an intraneural interface short-term implant for robotic hand control modulate sensorimotor cortical integration? An EEG-TMS co-registration study on a human amputee. Restorative Neurology and Neuroscience, 2014, 32, 281-292.	0.7	19
31	A framework for modeling and implementing QoS-aware load balancing solutions in WiFi hotspots. , 2014, , .		4
32	TRS-TMS: An EEGLAB plugin for the reconstruction of onsets in EEG-TMS datasets. , 2013, , .		1
33	Complex epileptic palilalia: A case report. Seizure: the Journal of the British Epilepsy Association, 2012, 21, 655-657.	2.0	5
34	ECG smoothing and denoising by local quadratic variation reduction. , 2011, , .		0
35	A CAPWAP-based solution for frequency planning in large scale networks of WiFi Hot-Spots. Computer Communications, 2011, 34, 1283-1293.	5.1	10
36	Fast ECG baseline wander removal preserving the ST segment. , 2011, , .		7

#	Article	IF	Citations
37	Providing Service Guarantees in 802.11e EDCA WLANs with Legacy Stations. IEEE Transactions on Mobile Computing, 2010, 9, 1057-1071.	5.8	26
38	A 2D segmentation algorithm for the analisys of TBY-2 cells. , 2010, , .		0
39	Problems with Correct Traffic Differentiation in Line Topology IEEE 802.11 EDCA Networks in the Presence of Hidden and Exposed Nodes. Lecture Notes in Computer Science, 2009, , 261-275.	1.3	2
40	A Delay Monitoring Method for Up-Link Flows in IEEE 802.11e EDCA Networks. , 2009, , .		0
41	Throughput and Energy Efficiency in IEEE 802.11 WLANs: Friends or Foes?. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 451-462.	0.3	1
42	Performance Analysis of 802.11e Networks with Hidden Nodes in a Star Topology. , 2008, , .		7
43	A Reactive Approach to QoS Provisioning in IEEE 802.11e WLANs. , 2008, , .		4
44	An Analysis of Star Topology IEEE 802.11e Networks in the Presence of Hidden Nodes. Information Networking, 2008 ICOIN 2008 International Conference on, 2008, , .	0.0	9
45	Thorough Analysis of 802.11e Star Topology Scenarios in the Presence of Hidden Nodes. Lecture Notes in Computer Science, 2008, , 792-803.	1.3	5
46	QoS Provisioning in IEEE 802.11e WLANs through Reactive Monitoring. , 2007, , .		3
47	Reducing the Impact of Legacy Stations on Voice Traffic in 802.11e EDCA WLANs. IEEE Communications Letters, 2007, 11, 331-333.	4.1	6
48	ACK Skipping: enabling QoS for multimedia communications in WiFi hot spots. International Journal of High Performance Computing and Networking, 2006, 4, 23.	0.4	2
49	Trading off quality and complexity for a HVQ-based video codec on portable devices. Journal of Visual Communication and Image Representation, 2006, 17, 564-572.	2.8	2
50	Throughput analysis and optimal configuration of 802.11e EDCA. Computer Networks, 2006, 50, 1749-1768.	5.1	73
51	Managing mobility and adaptation in upcoming 802.21 enabled devices. , 2006, , .		38
52	Dynamic Configuration of MAC QoS Mechanisms in 802.11 Access Networks. Lecture Notes in Computer Science, 2006, , 542-553.	1.3	2
53	ACKS: a technique to reduce the impact of legacy stations in 802.11e EDCA WLANs. IEEE Communications Letters, 2005, 9, 346-348.	4.1	13
54	A delay model for IEEE 802.11e EDCA. IEEE Communications Letters, 2005, 9, 508-510.	4.1	28

#	Article	IF	Citations
55	Adaptive streaming on heterogeneous networks. , 2005, , .		8
56	Experimental Analysis of Heterogeneous Wireless Networks. Lecture Notes in Computer Science, 2004, , 153-164.	1.3	13
57	Natural language processing in low back pain and spine diseases: A systematic review. Frontiers in Surgery, 0, 9, .	1.4	10