Paola Pierleoni

List of Publications by Year
in descending order

70 papers	1,193 citations	623734 14 h-index	434195 31 g-index
71 all docs	71 docs citations	71 times ranked	1064 citing authors

#	ARTICLE	IF	CITATIONS
1	Performance Improvement on Reception Confirmation Messages in Bluetooth Mesh Networks. IEEE Internet of Things Journal, 2022, 9, 2056-2070.	8.7	9
2	Activity Monitoring Through Wireless Sensor Networks Embedded Into Smart Sport Equipments: The Nordic Walking Training Utility. IEEE Sensors Journal, 2022, 22, 2744-2757.	4.7	2
3	Recent Advances in Internet of Things Solutions for Early Warning Systems: A Review. Sensors, 2022, 22, 2124.	3.8	49
4	A Single Wearable Sensor for Gait Analysis in Parkinson's Disease: A Preliminary Study. Applied Sciences (Switzerland), 2022, 12, 5486.	2.5	3
5	Machine Learning Approach for Care Improvement of Children and Youth with Type 1 Diabetes Treated with Hybrid Closed-Loop System. Electronics (Switzerland), 2022, 11, 2227.	3.1	1
6	Biological age estimation using an eHealth system based on wearable sensors. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 4449-4460.	4.9	7
7	Real-time smart monitoring system for atrial fibrillation pathology. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 4461-4469.	4.9	4
8	A Computer Vision System for Staff Gauge in River Flood Monitoring. Inventions, 2021, 6, 79.	2.5	12
9	Amazon, Google and Microsoft Solutions for IoT: Architectures and a Performance Comparison. IEEE Access, 2020, 8, 5455-5470.	4.2	88
10	A Wireless Body Sensor Network for Clinical Assessment of the Flexion-Relaxation Phenomenon. Electronics (Switzerland), 2020, 9, 1044.	3.1	5
11	A dataset for wearable sensors validation in gait analysis. Data in Brief, 2020, 31, 105918.	1.0	4
12	Data acquired by wearable sensors for the evaluation of the flexion-relaxation phenomenon. Data in Brief, 2020, 31, 105957.	1.0	5
13	Using Plastic Injection Moulding Machine Process Parameters for Predictive Maintenance Purposes. , 2020, , .		5
14	Electromyography Pattern Likelihood Analysis for Flexion-Relaxation Phenomenon Evaluation. Electronics (Switzerland), 2020, 9, 2046.	3.1	1
15	Validation of Forward Voltage Method to Estimate Cracks of the Solder Joints in High Power LED. Electronics (Switzerland), 2020, 9, 920.	3.1	6
16	A Versatile Machine Vision Algorithm for Real-Time Counting Manually Assembled Pieces. Journal of Imaging, 2020, 6, 48.	3.0	7
17	A Smart Inertial System for 24h Monitoring and Classification of Tremor and Freezing of Gait in Parkinson's Disease. IEEE Sensors Journal, 2019, 19, 11612-11623.	4.7	34
18	An EMD-Based Algorithm for Emboli Detection in Echo Doppler Audio Signals. Electronics (Switzerland), 2019, 8, 824.	3.1	4

#	Article	IF	Citations
19	Doppler ultrasound dataset for the development of automatic emboli detection algorithms. Data in Brief, 2019, 27, 104739.	1.0	3
20	MIMIC: a Cybersecurity Threat Turns into a Fog Computing Agent for IoT Systems. , 2019, , .		1
21	Simultaneously acquired data from contactless and wearable devices for direct and indirect heart-rate measurement. Data in Brief, 2019, 26, 104436.	1.0	4
22	An Efficient Method for LED Light Sources Characterization. Electronics (Switzerland), 2019, 8, 1089.	3.1	8
23	A eHealth System for Atrial Fibrillation Monitoring. Lecture Notes in Electrical Engineering, 2019, , 229-241.	0.4	3
24	A dataset for the development and optimization of fall detection algorithms based on wearable sensors. Data in Brief, 2019, 23, 103839.	1.0	22
25	Postural stability evaluation using wearable wireless sensor. , 2019, , .		4
26	Self-Monitoring of Cardiac Risk while Running Around Ancona. , 2019, , .		2
27	Dynamic Segmented Beat Modulation Method for Denoising ECG Data from Wearable Sensors. , 2019, , .		0
28	Databases Performance Evaluation for IoT Systems: the Scrovegni Chapel Use Case. , 2019, , .		3
29	IoT Network for Industrial Machine Energy Monitoring. , 2019, , .		1
30	A Non-invasive Method for Biological Age Estimation Using Frailty Phenotype Assessment. Lecture Notes in Electrical Engineering, 2019, , 81-94.	0.4	3
31	Telecommunications in the ICT Age: From Research to Applications. , 2019, , 53-71.		0
32	Performance Evaluation of a Low-Cost Sensing Unit for Seismic Applications: Field Testing During Seismic Events of 2016-2017 in Central Italy. IEEE Sensors Journal, 2018, 18, 6644-6659.	4.7	18
33	The Scrovegni Chapel Moves Into the Future: An Innovative Internet of Things Solution Brings New Light to Giotto's Masterpiece. IEEE Sensors Journal, 2018, 18, 7681-7696.	4.7	22
34	Performance Evaluation of a Low-Cost Sensing Unit for Seismic Applications: Field Testing During Seismic Events of 2016-2017 in Central Italy. IEEE Sensors Journal, 2018, 18, 6644-6659.	4.7	1
35	A classification system for assessment and home monitoring of tremor in patients with Parkinson's disease. Journal of Medical Signals and Sensors, 2018, 8, 65.	1.0	35
36	A Classification System for Assessment and Home Monitoring of Tremor in Patients with Parkinson's Disease. Journal of Medical Signals and Sensors, 2018, 8, 65-72.	1.0	12

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37	A Software Tool for the Annotation of Embolic Events in Echo Doppler Audio Signals. Biomedical Informatics Insights, 2017, 9, 117822261774555.	4.6	0
38	Sensing Light with LEDs: Performance Evaluation for IoT Applications. Journal of Imaging, 2017, 3, 50.	3.0	5
39	Heart Rate Detection Using Microsoft Kinect: Validation and Comparison to Wearable Devices. Sensors, 2017, 17, 1776.	3.8	46
40	Design and Validation of a Breathing Detection System for Scuba Divers. Sensors, 2017, 17, 1349.	3.8	16
41	A Wearable Fall Detector for Elderly People Based on AHRS and Barometric Sensor. IEEE Sensors Journal, 2016, 16, 6733-6744.	4.7	90
42	Indoor localization system for AAL over IPv6 WSN. , 2016, , .		8
43	Design and energetic analysis of a self-powered Bluetooth low energy speed sensor. , 2016, , .		2
44	An innovative WebRTC solution for e-Health services. , 2016, , .		15
45	IPv6 WSN solution for integration and interoperation between smart home and AAL systems. , 2016, , .		16
46	A neural network system for diagnosis and assessment of tremor in parkinson disease patients. , 2015, , .		29
47	SVM-based fall detection method for elderly people using Android low-cost smartphones. , 2015, , .		18
48	A High Reliability Wearable Device for Elderly Fall Detection. IEEE Sensors Journal, 2015, 15, 4544-4553.	4.7	211
49	Interoperability issues among smart home technological frameworks. , 2014, , .		21
50	A versatile ankle-mounted fall detection device based on attitude heading systems. , 2014, , .		8
51	A real-time system to aid clinical classification and quantification of tremor in Parkinson's disease. , 2014, , .		32
52	An accurate device for real-time altitude estimation using data fusion algorithms. , 2014, , .		15
53	An Android-Based Heart Monitoring System for the Elderly and for Patients with Heart Disease. International Journal of Telemedicine and Applications, 2014, 2014, 1-11.	2.0	35
54	Real-time apnea detection using pressure sensor and tri-axial accelerometer. , 2014, , .		7

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55	A WSN Integrated Solution System for Technological Support to the Self-Sufficient Elderly. , 2014, , 281-290.		3
56	SPINE-HRV: A BSN-Based Toolkit for Heart Rate Variability Analysis in the Time-Domain. Lecture Notes in Electrical Engineering, 2010, , 369-389.	0.4	44
57	Object oriented framework for remote control and domotics. , 2009, , .		0
58	An RFID based framework for race tyre companies customer satisfaction survey. , 2009, , .		1
59	Adaptive Threshold For Intra Frame Prediction In H.263 To H.264 Smart-Transcoder. International Conference on Advanced Communication Technology, 2008, , .	0.0	0
60	On use of xAP Home Automation Protocol for networking in critical environments. International Conference on Advanced Communication Technology, 2008, , .	0.0	1
61	The Dynamic Construction Of Multi-User VRML 3D Environment For Immersive Learning On The Web. Signals and Communication Technology, 2006, , 497-509.	0.5	2
62	Audio Rendering System For Multimedia Applications. Signals and Communication Technology, 2006, , 61-72.	0.5	0
63	Proposal and performance evaluation of a packet over VDSL protocol for increasing throughput in the transmission of IP packets. International Journal of Communication Systems, 2004, 17, 363-374.	2.5	0
64	Computing the free distance of turbo codes and serially concatenated codes with interleavers: algorithms and applications. IEEE Journal on Selected Areas in Communications, 2001, 19, 800-812.	14.0	154
65	Design of an all-optical wavelength router based on spatial solitons. Journal of Lightwave Technology, 1999, 17, 1670-1681.	4.6	2
66	Self-routing all-optical switch for WDM applications. , 1998, 3491, 9.		0
67	All-optical polarization modulator based on spatial soliton coupling. Journal of Lightwave Technology, 1996, 14, 513-523.	4.6	8
68	Soliton propagation in long erbium-doped fiber amplifiers with nonuniform gain. Optics Communications, 1994, 105, 47-51.	2.1	2
69	Validation of the Heart:Rate Signal Provided by the Zephyr BioHarness 3.0. , 0, , .		12
70	An optimized system for mobility evaluation in frailty phenotype assessment. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	4.9	0