

Marco CarratÃ¹

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

624
citations

933447

10
h-index

794594

19
g-index

60
all docs

60
docs citations

60
times ranked

315
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature stress tests on low-cost IMU systems: Analysis and first proposal for enhancing performance. , 2022, , .		2
2	Development of a new speed measurement technique based on deep learning. , 2022, , .		2
3	Skin Cancer Classification based on Cosine Cyclical Learning Rate with Deep Learning. , 2022, , .		2
4	A deep learning approach for the development of an Early Earthquake Warning system. , 2022, , .		5
5	A novel image processing technique based on deep learning for water consumption detection. , 2022, , .		2
6	Sensitivity of water meters to small leakage. Measurement: Journal of the International Measurement Confederation, 2021, 168, 108479.	5.0	13
7	Body Temperatureâ€™Indoor Condition Monitor and Activity Recognition by MEMS Accelerometer Based on IoT-Alert System for People in Quarantine Due to COVID-19. Sensors, 2021, 21, 2313.	3.8	44
8	Reliability and Functional Analysis of IMU systems under temperature-based stress tests. , 2021, , .		3
9	A Novel Technique for Earthquakes Magnitude Estimation. , 2021, , .		3
10	Noise Attenuation on IMU Measurement For Drone Balance by Sensor Fusion. , 2021, , .		6
11	Cascade based methods in detecting rotating faults using vibration measurements. , 2021, , .		1
12	Analysis of MEMS devices under temperature stress test. , 2021, , .		4
13	Performance analysis of MEMS-based inertial measurement units in terrestrial vehicles. Measurement: Journal of the International Measurement Confederation, 2021, 186, 110237.	5.0	6
14	Benefits of enhanced techniques combining negentropy, spectral correlation and kurtogram for bearing fault diagnosis. Measurement: Journal of the International Measurement Confederation, 2021, 185, 110013.	5.0	6
15	Characterization of Inertial measurement units using sine-on-random vibration test. Measurement: Sensors, 2021, 18, 100104.	1.7	2
16	Experimental Analysis of Filtering Algorithms for IMU-Based Applications Under Vibrations. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	26
17	Image Processing Technique for Improving the Sensitivity of Mechanical Register Water Meters to Very Small Leaks. Sensors, 2021, 21, 7251.	3.8	5
18	Separate Sound into STFT Frames to Eliminate Sound Noise Frames in Sound Classification. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
19	Indoor Silent Object Localization using Ambient Acoustic Noise Fingerprinting. , 2020, , .		4
20	Characterization of Inertial Measurement Units under Environmental Stress Screening. , 2020, , .		9
21	Vibrations Measurement and Current Signatures for Fault Detection in Asynchronous Motor. , 2020, , .		9
22	Edge Sensor Signal Processing Algorithms for Earthquake Early Detection. , 2020, , .		5
23	Image based similarity detection in mechanical registers. , 2020, , .		1
24	Design and Experimental analysis of temperature tests for Inertial Measurement Units in Avionic applications. , 2020, , .		2
25	Deep Melanoma classification with K-Fold Cross-Validation for Process optimization. , 2020, , .		12
26	Wireless Sensor Network Calibration for PM10 Measurement. , 2020, , .		5
27	A novel IVS procedure for handling Big Data with Artificial Neural Networks. , 2020, , .		4
28	Soft Sensors for Instrument Fault Accommodation in Semiactive Motorcycle Suspension Systems. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2367-2376.	4.7	16
29	Development of a test plan and a testbed for performance analysis of MEMS-based IMUs under vibration conditions. Measurement: Journal of the International Measurement Confederation, 2020, 158, 107734.	5.0	19
30	Test Platform for Data Fusion Application in Indoor Positioning. Lecture Notes in Electrical Engineering, 2020, , 329-333.	0.4	2
31	A New Technique for Optimization of Linear Displacement Measurement based on MEMS Accelerometer. , 2020, , .		8
32	Smart wearable devices for human exposure vibration measurements on two-wheel vehicles. Acta IMEKO (2012), 2020, 9, 121.	0.7	7
33	Design and Implementation of a Diagnostic Scheme for Stroke Sensors in Motorcycle Semi-active Suspension Systems. Lecture Notes in Electrical Engineering, 2020, , 335-341.	0.4	1
34	Earthquake Early Detection as an IEEE1451 Transducer Network Trigger for Urban Infrastructure Monitoring and Protection. IEEE Instrumentation and Measurement Magazine, 2020, 23, 43-49.	1.6	8
35	Two-stage Artificial Intelligence Clinical Decision Support System for Cardiovascular Assessment using Convolutional Neural Networks and Decision Trees. , 2020, , .		2
36	IMU self-alignment in suspensions control system. , 2019, , .		11

#	ARTICLE	IF	CITATIONS
37	A Smart Wireless Sensor Network For PM10 Measurement. , 2019, , .		19
38	A wearable low-cost device for measurement of human exposure to transmitted vibration on motorcycle. , 2019, , .		1
39	An IFDI Scheme for Stroke Sensors in Motorcycle Semi-Active Suspension Systems. , 2019, , .		4
40	Smart meters and water leakage detection: a preliminary study. , 2019, , .		7
41	IEEE 21451-001 Signal Treatment Applied to Smart Transducers. Lecture Notes in Electrical Engineering, 2019, , 371-376.	0.4	1
42	Online Fault Detection of Rear Stroke Suspension Sensor in Motorcycle. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1362-1372.	4.7	33
43	Estimating the Outdoor PM10 Concentration Through Wireless Sensor Network for Smart Metering. Lecture Notes in Electrical Engineering, 2019, , 399-404.	0.4	2
44	Self-alignment procedure for IMU in automotive context. , 2019, , .		3
45	Bridge dynamic analysis for accurate control and monitoring: Feasibility study. , 2019, , .		4
46	Energy characterization of attitude algorithms. , 2019, , .		16
47	Data Fusion for Timber Bundle Volume Measurement. , 2019, , .		10
48	A low cost smart power meter for IoT. Measurement: Journal of the International Measurement Confederation, 2019, 136, 59-66.	5.0	72
49	NARX ANN-based instrument fault detection in motorcycle. Measurement: Journal of the International Measurement Confederation, 2018, 117, 304-311.	5.0	27
50	Analytically Redundancy Based IFDI Scheme for Semi-Active Suspension Systems in Motorcycle. Journal of Physics: Conference Series, 2018, 1065, 102011.	0.4	4
51	Wireless Sensor Network for Low-cost Air Quality Measurement. Journal of Physics: Conference Series, 2018, 1065, 192004.	0.4	7
52	Semi-active suspension system for motorcycles: From the idea to the industrial product. , 2018, , .		11
53	Smart Power Meter for the IoT. , 2018, , .		20
54	Measuring suspension velocity from acceleration integration. , 2018, , .		6

#	ARTICLE	IF	CITATIONS
55	Smart meter for the IoT. , 2018, , .		35
56	Real-time implementation of an IFD scheme for motorcycle sensors. , 2018, , .		18
57	A soft stroke sensor for motorcycle rear suspension. Measurement: Journal of the International Measurement Confederation, 2017, 106, 46-52.	5.0	23
58	Performance Analysis of wM-Bus Networks for Smart Metering. IEEE Sensors Journal, 2017, 17, 7849-7856.	4.7	26
59	Velocity prediction from acceleration measurements in motorcycle suspensions. , 2017, , .		16