Laura Falaschetti

List of Publications by Year in descending order

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687363 794594 50 486 13 19 citations h-index g-index papers 52 52 52 357 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	A Low-Rank CNN Architecture for Real-Time Semantic Segmentation in Visual SLAM Applications. IEEE Open Journal of Circuits and Systems, 2022, 3, 115-133.	1.9	5
2	EEG-Based Alzheimer's Disease Recognition Using Robust-PCA and LSTM Recurrent Neural Network. Sensors, 2022, 22, 3696.	3.8	20
3	Recurrent Neural Network for Human Activity Recognition in Embedded Systems Using PPG and Accelerometer Data. Electronics (Switzerland), 2021, 10, 1715.	3.1	37
4	Energy and Performance Analysis of Lossless Compression Algorithms for Wireless EMG Sensors. Sensors, 2021, 21, 5160.	3.8	10
5	A Low-Cost, Low-Power and Real-Time Image Detector for Grape Leaf Esca Disease Based on a Compressed CNN. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2021, 11, 468-481.	3.6	16
6	Classification of Alzheimer's Disease from EEG Signal Using Robust-PCA Feature Extraction. Procedia Computer Science, 2021, 192, 3114-3122.	2.0	21
7	Singular Value Decomposition in Embedded Systems Based on ARM Cortex-M Architecture. Electronics (Switzerland), 2021, 10, 34.	3.1	7
8	Synthetic image dataset of shaft junctions inside wind turbines in presence or absence of oil leaks. Data in Brief, 2021, 39, 107538.	1.0	1
9	A High-Gain CNTFET-Based LNA Developed Using a Compact Design-Oriented Device Model. Electronics (Switzerland), 2021, 10, 2835.	3.1	2
10	Online Learning of Oil Leak Anomalies in Wind Turbines with Block-Based Binary Reservoir. Electronics (Switzerland), 2021, 10, 2836.	3.1	7
11	Dataset from PPG wireless sensor for activity monitoring. Data in Brief, 2020, 29, 105044.	1.0	21
12	An Effective Manifold Learning Approach to Parametrize Data for Generative Modeling of Biosignals. IEEE Access, 2020, 8, 207112-207133.	4.2	1
13	A Compact and Robust Technique for the Modeling and Parameter Extraction of Carbon Nanotube Field Effect Transistors. Electronics (Switzerland), 2020, 9, 2199.	3.1	2
14	Machine Learning and Data Fusion Techniques Applied to Physical Activity Classification Using Photoplethysmographic and Accelerometric Signals. Procedia Computer Science, 2020, 176, 3103-3111.	2.0	9
15	A Multi-Channel Electromyography, Electrocardiography and Inertial Wireless Sensor Module Using Bluetooth Low-Energy. Electronics (Switzerland), 2020, 9, 934.	3.1	17
16	Principal Tensor Embedding for Unsupervised Tensor Learning. IEEE Access, 2020, 8, 225240-225257.	4.2	1
17	A Comparative Study of Computational Methods for Compressed Sensing Reconstruction of EMG Signal. Sensors, 2019, 19, 3531.	3.8	10
18	Dataset from spirometer and sEMG wireless sensor for diaphragmatic respiratory activity monitoring. Data in Brief, 2019, 25, 104217.	1.0	4

#	Article	IF	Citations
19	Recognition of Daily Human Activities Using Accelerometer and sEMG Signals. Smart Innovation, Systems and Technologies, 2019, , 37-47.	0.6	4
20	Reduced complexity algorithm for heart rate monitoring from PPG signals using automatic activity intensity classifier. Biomedical Signal Processing and Control, 2019, 52, 293-301.	5.7	12
21	A Driving Technique for AC-AC Direct Matrix Converters Based on Sigma-Delta Modulation. Energies, 2019, 12, 1103.	3.1	5
22	A manifold learning approach to dimensionality reduction for modeling data. Information Sciences, 2019, 491, 16-29.	6.9	24
23	A Machine Learning Approach to the Identification of Dynamical Nonlinear Systems. , 2019, , .		2
24	Activity Monitoring and Phase Detection Using a Portable EMG/ECG System. Lecture Notes in Electrical Engineering, 2019, , 187-194.	0.4	1
25	A GPU Parallel Algorithm for Non Parametric Tensor Learning. , 2018, , .		2
26	A comparative study of machine learning algorithms for physiological signal classification. Procedia Computer Science, 2018, 126, 1977-1984.	2.0	17
27	An acquisition system of in-house parameters from wireless sensors for the identification of an environmental model. Procedia Computer Science, 2018, 126, 1903-1912.	2.0	2
28	HMM speech synthesis based on MDCT representation. International Journal of Speech Technology, 2018, 21, 1045-1055.	2.2	6
29	Human activity monitoring system based on wearable sEMG and accelerometer wireless sensor nodes. BioMedical Engineering OnLine, 2018, 17, 132.	2.7	49
30	Classifier Level Fusion of Accelerometer and sEMG Signals for Automatic Fitness Activity Diarization. Sensors, 2018, 18, 2850.	3.8	12
31	Sigma-Delta Based Modulation Method for Matrix Converters. , 2018, , .		1
32	Speaker Identification in Noisy Conditions Using Short Sequences of Speech Frames. Smart Innovation, Systems and Technologies, 2018, , 43-52.	0.6	8
33	Human Activity Recognition Using Accelerometer and Photoplethysmographic Signals. Smart Innovation, Systems and Technologies, 2018, , 53-62.	0.6	13
34	An Investigation on the Accuracy of Truncated DKLT Representation for Speaker Identification With Short Sequences of Speech Frames. IEEE Transactions on Cybernetics, 2017, 47, 4235-4249.	9.5	20
35	Optimizing linear routing in the ToLHnet protocol to improve performance over long RS-485 buses. Eurasip Journal on Embedded Systems, 2017, 2017, .	1.2	3
36	A machine learning method to determine intrinsic dimension of time series data., 2017,,.		O

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37	Machine learning regression based on particle bernstein polynomials for nonlinear system identification., 2017,,.		9
38	A Portable Wireless sEMG and Inertial Acquisition System for Human Activity Monitoring. Lecture Notes in Computer Science, 2017, , 608-620.	1.3	10
39	An Efficient Technique for Real-Time Human Activity Classification Using Accelerometer Data. Smart Innovation, Systems and Technologies, 2016, , 425-434.	0.6	8
40	Learning HMM State Sequences from Phonemes for Speech Synthesis. Procedia Computer Science, 2016, 96, 1589-1596.	2.0	3
41	Wireless surface electromyograph and electrocardiograph system on 802.15.4. IEEE Transactions on Consumer Electronics, 2016, 62, 258-266.	3.6	29
42	Discrete bessel functions for representing the class of finite duration decaying sequences. , 2016, , .		1
43	Robust Speaker Identification in a Meeting with Short Audio Segments. Smart Innovation, Systems and Technologies, 2016, , 465-477.	0.6	6
44	Multivariate Direction Scoring for Dimensionality Reduction inÂClassification Problems. Smart Innovation, Systems and Technologies, 2016, , 413-423.	0.6	3
45	Distributed Speech and Speaker Identification System for Personalized Domotic Control. Lecture Notes in Electrical Engineering, 2016, , 159-170.	0.4	4
46	Motion Artifact Reduction in Photoplethysmography using Bayesian Classification for Physical Exercise Identification. , 2016, , .		8
47	An algorithm for automatic words extraction from a stream of phones in dictionary-based large vocabulary continuous speech recognition systems. , 2015, , .		0
48	CARMA: A robust motion artifact reduction algorithm for heart rate monitoring from PPG signals. , 2015, , .		14
49	A Rule Based Framework for Smart Training Using sEMG Signal. Smart Innovation, Systems and Technologies, 2015, , 89-99.	0.6	14
50	Multi-Class ECG Beat Classification Based on a Gaussian Mixture Model of Karhunen-Loève Transform. International Journal of Simulation: Systems, Science and Technology, 0, , .	0.0	1