

# Massimo Panella

## List of Publications by Year in descending order

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Version: 2024-02-01

110  
papers

1,803  
citations

304368

22  
h-index

315357

38  
g-index

116  
all docs

116  
docs citations

116  
times ranked

1455  
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy-efficient dynamic traffic offloading and reconfiguration of networked data centers for big data stream mobile computing: review, challenges, and a case study. <i>IEEE Network</i> , 2016, 30, 54-61.	4.9	161
2	Distributed learning for Random Vector Functional-Link networks. <i>Information Sciences</i> , 2015, 301, 271-284.	4.0	134
3	A decentralized training algorithm for Echo State Networks in distributed big data applications. <i>Neural Networks</i> , 2016, 78, 65-74.	3.3	102
4	Adaptive resolution min-max classifiers. <i>IEEE Transactions on Neural Networks</i> , 2002, 13, 402-414.	4.8	93
5	A Neural Network Based Prediction System of Distributed Generation for the Management of Microgrids. <i>IEEE Transactions on Industry Applications</i> , 2019, 55, 7092-7102.	3.3	68
6	An input-output clustering approach to the synthesis of ANFIS networks. <i>IEEE Transactions on Fuzzy Systems</i> , 2005, 13, 69-81.	6.5	66
7	Neural networks with quantum architecture and quantum learning. <i>International Journal of Circuit Theory and Applications</i> , 2011, 39, 61-77.	1.3	54
8	Partial Discharge Pattern Recognition by Neuro-Fuzzy Networks in Heat-Shrinkable Joints and Terminations of XLPE Insulated Distribution Cables. <i>IEEE Transactions on Power Delivery</i> , 2006, 21, 1035-1044.	2.9	51
9	Dust detection and analysis in museum environment based on pattern recognition. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 66, 62-72.	2.5	50
10	Prediction in Photovoltaic Power by Neural Networks. <i>Energies</i> , 2017, 10, 1003.	1.6	49
11	Distributed semi-supervised support vector machines. <i>Neural Networks</i> , 2016, 80, 43-52.	3.3	44
12	Forecasting Energy Commodity Prices Using Neural Networks. <i>Advances in Decision Sciences</i> , 2012, 2012, 1-26.	1.4	39
13	Fully Decentralized Semi-supervised Learning via Privacy-preserving Matrix Completion. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017, 28, 2699-2711.	7.2	36
14	A Distributed Algorithm for the Cooperative Prediction of Power Production in PV Plants. <i>IEEE Transactions on Energy Conversion</i> , 2019, 34, 497-508.	3.7	36
15	Deep Neural Networks for Multivariate Prediction of Photovoltaic Power Time Series. <i>IEEE Access</i> , 2020, 8, 211490-211505.	2.6	32
16	Refining accuracy of environmental data prediction by MoG neural networks. <i>Neurocomputing</i> , 2003, 55, 521-549.	3.5	31
17	A Fuzzy Kernel Motion Classifier for Autonomous Stroke Rehabilitation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016, 20, 893-901.	3.9	31
18	Selection of clinical features for pattern recognition applied to gait analysis. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 685-695.	1.6	31

#	ARTICLE	IF	CITATIONS
19	Neurofuzzy Networks With Nonlinear Quantum Learning. IEEE Transactions on Fuzzy Systems, 2009, 17, 698-710.	6.5	30
20	An Accurate Algorithm for the Identification of Fingertips Using an RGB-D Camera. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2013, 3, 272-283.	2.7	28
21	Distributed music classification using Random Vector Functional-Link nets. , 2015, , .		28
22	Advances in biological time series prediction by neural networks. Biomedical Signal Processing and Control, 2011, 6, 112-120.	3.5	27
23	Embedding of time series for the prediction in photovoltaic power plants. , 2016, , .		26
24	A Hierarchical Procedure for the Synthesis of ANFIS Networks. Advances in Fuzzy Systems, 2012, 2012, 1-12.	0.6	25
25	Scale-based approach to hierarchical fuzzy clustering. Signal Processing, 2000, 80, 1001-1016.	2.1	23
26	Genre classification of compressed audio data. , 2008, , .		23
27	A novel fuzzy approach for automatic Brunnstrom stage classification using surface electromyography. Medical and Biological Engineering and Computing, 2017, 55, 1367-1378.	1.6	23
28	Two-stage dynamic management in energy communities using a decision system based on elastic net regularization. Applied Energy, 2021, 291, 116852.	5.1	22
29	Multimedia and Gaming Technologies for Telerehabilitation of Motor Disabilities [Leading Edge]. IEEE Technology and Society Magazine, 2015, 34, 23-30.	0.6	20
30	Shapes classification of dust deposition using fuzzy kernel-based approaches. Measurement: Journal of the International Measurement Confederation, 2016, 77, 344-350.	2.5	20
31	Source Localization in Reverberant Environments by Consistent Peak Selection. , 2007, , .		18
32	Distributed data clustering over networks. Pattern Recognition, 2019, 93, 603-620.	5.1	18
33	A Smartphone-Based Application Using Machine Learning for Gesture Recognition: Using Feature Extraction and Template Matching via Hu Image Moments to Recognize Gestures. IEEE Consumer Electronics Magazine, 2019, 8, 25-29.	2.3	18
34	Deep learning-based Structural Health Monitoring for damage detection on a large space antenna. Acta Astronautica, 2022, 193, 635-643.	1.7	18
35	Distributed Reservoir Computing with Sparse Readouts [Research Frontier]. IEEE Computational Intelligence Magazine, 2016, 11, 59-70.	3.4	15
36	A comparison of machine learning classifiers for smartphone-based gait analysis. Medical and Biological Engineering and Computing, 2021, 59, 535-546.	1.6	14

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37	2-D Convolutional Deep Neural Network for the Multivariate Prediction of Photovoltaic Time Series. Energies, 2021, 14, 2392.	1.6	11
38	An RNS Architecture for Quasi-Chaotic Oscillators. Journal of Signal Processing Systems, 2003, 33, 199-220.	1.0	10
39	Learning from Distributed Data Sources Using Random Vector Functional-Link Networks. Procedia Computer Science, 2015, 53, 468-477.	1.2	10
40	Fuzzy Clustering Using the Convex Hull as Geometrical Model. Advances in Fuzzy Systems, 2015, 2015, 1-13.	0.6	10
41	Distributed learning of Random Weights Fuzzy Neural Networks. , 2016, , .		10
42	A Deep Learning Strategy For On-Orbit Servicing Via Space Robotic Manipulator. Aerotecnica Missili & Spazio, 2019, 98, 273-282.	0.5	10
43	A decentralized algorithm for distributed ensemble clustering. Information Sciences, 2021, 578, 417-434.	4.0	10
44	RNS quasi-chaotic generators. Electronics Letters, 2000, 36, 1325.	0.5	9
45	Fuzzy membership functions based on point-to-polygon distance evaluation. , 2013, , .		9
46	Takagi-sugeno fuzzy systems applied to voltage prediction of photovoltaic plants. , 2017, , .		9
47	A Review of the Enabling Methodologies for Knowledge Discovery from Smart Grids Data. Energies, 2020, 13, 6579.	1.6	9
48	Distributed LSTM-based cloud resource allocation in Network Function Virtualization Architectures. Computer Networks, 2022, 213, 109111.	3.2	9
49	Distributed on-line learning for random-weight fuzzy neural networks. , 2017, , .		8
50	A Smart Grid in Ponza Island: Battery Energy Storage Management by Echo State Neural Network. , 2018, , .		8
51	Hyperdimensional Computing for Efficient Distributed Classification with Randomized Neural Networks. , 2021, , .		8
52	Subband prediction of energy commodity prices. , 2012, , .		7
53	A Parallel Hardware Implementation for 2-D Hierarchical Clustering Based on Fuzzy Logic. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1428-1432.	2.2	7
54	RNS quasi-chaotic generator for self-correcting secure communication. Electronics Letters, 2001, 37, 325.	0.5	6

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55	Finite precision implementation of random vector functional-link networks. , 2017, , .		6
56	Privacy-Preserving Data Mining for Distributed Medical Scenarios. Smart Innovation, Systems and Technologies, 2018, , 119-128.	0.5	6
57	A Sparse Bayesian Model for Random Weight Fuzzy Neural Networks. , 2018, , .		6
58	A study on crude oil prices modeled by neurofuzzy networks. , 2013, , .		5
59	A nonuniform quantizer for hardware implementation of neural networks. , 2017, , .		5
60	Water Quality Prediction Based on Wavelet Neural Networks and Remote Sensing. , 2018, , .		5
61	On-line Learning of RVFL Neural Networks on Finite Precision Hardware. , 2018, , .		5
62	Power spectra prognostic aspects of impulsive eye movement traces in superior vestibular neuritis. Medical and Biological Engineering and Computing, 2019, 57, 1617-1627.	1.6	5
63	Design of an LSTM Cell on a Quantum Hardware. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1822-1826.	2.2	5
64	Optimised RC-active synthesis of PEM networks. Electronics Letters, 2005, 41, 1041.	0.5	4
65	RC distributed circuits for vibration damping in piezo-electromechanical beams. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2005, 52, 486-490.	2.3	4
66	Optimization of Hybrid Electric Cars by Neuro-Fuzzy Networks. Lecture Notes in Computer Science, 2007, , 253-260.	1.0	4
67	Improved online fuzzy clustering based on unconstrained kernels. , 2015, , .		4
68	2D hierarchical fuzzy clustering using kernel-based membership functions. Electronics Letters, 2016, 52, 193-195.	0.5	4
69	2-D Convolutional Deep Neural Network for Multivariate Energy Time Series Prediction. , 2019, , .		4
70	A Hybrid Energy Hub Investigation with Renewables and Electric Vehicle in a Smart Microgrid Lab. , 2021, , .		4
71	Deep Neural Networks for Electric Energy Theft and Anomaly Detection in the Distribution Grid. , 2021, , .		4
72	A Modular RC-Active Network for Vibration Damping in Piezo-Electro-Mechanical Beams. , 0, , .		3

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73	Stability analysis of optimal PEM networks. Electronics Letters, 2006, 42, 961.	0.5	3
74	A higher-order fuzzy neural network for modeling financial time series. , 2014, , .		3
75	A genetic algorithm for feature selection in gait analysis. , 2016, , .		3
76	Retrieving Chlorophyll-a levels, transparency and TSS concentration from multispectral satellite data by using artificial neural networks. , 2017, , .		3
77	Eutrophication Analysis of Water Reservoirs by Remote Sensing and Neural Networks. , 2018, , .		3
78	A Training Procedure for Quantum Random Vector Functional-link Networks. , 2019, , .		3
79	Multidimensional Feeding of LSTM Networks for Multivariate Prediction of Energy Time Series. , 2020, , .		3
80	Maximum Length Weighted Nearest Neighbor approach for electricity load forecasting. , 2015, , .		2
81	Neural Network Approaches to Electricity Price Forecasting in Day-Ahead Markets. , 2018, , .		2
82	A Review of the Enabling Methodologies for Knowledge Discovery from Smart Grids Data. , 2020, , .		2
83	A Combined Deep Learning Approach for Time Series Prediction in Energy Environments. , 2020, , .		2
84	Binary Neuro-Fuzzy Classifiers Trained by Nonlinear Quantum Circuits. Lecture Notes in Computer Science, 2007, , 237-244.	1.0	2
85	The Quantum Approach Leading from Evolutionary to Exhaustive Optimization. Journal of Applied Sciences, 2012, 12, 1995-2005.	0.1	2
86	Multivariate Prediction of Energy Time Series by Autoencoded LSTM Networks. , 2021, , .		2
87	Estimation of bone mineral density data using MoG neural networks. , 0, , .		1
88	A data driven circuit model for rechargeable batteries. , 2014, , .		1
89	Distributed spectral clustering based on Euclidean distance matrix completion. , 2016, , .		1
90	A new learning approach for Takagi-Sugeno fuzzy systems applied to time series prediction. , 2017, , .		1

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91	Predictive Analysis of Photovoltaic Power Generation Using Deep Learning. , 2019, , .		1
92	Multivariate Prediction of PM10 Concentration by LSTM Neural Networks. , 2019, , .		1
93	Time Series Prediction Using Random Weights Fuzzy Neural Networks. , 2020, , .		1
94	ADMM Consensus for Deep LSTM Networks. , 2020, , .		1
95	A Blockwise Embedding for Multi-Day-Ahead Prediction of Energy Time Series by Randomized Deep Neural Networks. , 2021, , .		1
96	A Classification Approach to Modeling Financial Time Series. Smart Innovation, Systems and Technologies, 2019, , 97-106.	0.5	1
97	Neural Network in Modeling Glucose-Insulin Behavior. , 2005, , 367-374.		1
98	ANFIS Synthesis by Hyperplane Clustering for Time Series Prediction. Lecture Notes in Computer Science, 2003, , 77-84.	1.0	0
99	FROM CIRCUITS TO NEUROFUZZY NETWORKS: SYNTHESIS BY NUMERICAL AND LINGUISTIC INFORMATION. Journal of Circuits, Systems and Computers, 2004, 13, 205-236.	1.0	0
100	A tuning procedure for the electric networks of PEM systems. , 2010, , .		0
101	Radiofrequency Identification Systems for Healthcare. Journal of Clinical Engineering, 2013, 38, 125-133.	0.1	0
102	A Fuzzy Neural Network Approach to Quality Assessment of Water Reservoirs. , 2019, , .		0
103	Multivariate Prediction in Photovoltaic Power Plants by a Stacked Deep Neural Network. , 2019, , .		0
104	Decentralized Prediction of Electrical Time Series in Smart Grids Using Long Short-Term Memory Neural Networks. , 2019, , .		0
105	An Energy-Aware Hardware Implementation of 2D Hierarchical Clustering. , 2020, , .		0
106	Prediction of Photovoltaic Time Series by Recurrent Neural Networks and Genetic Embedding. , 2020, , .		0
107	Time Series Prediction with Autoencoding LSTM Networks. Lecture Notes in Computer Science, 2021, , 306-317.	1.0	0
108	A New ANFIS Synthesis Approach for Time Series Forecasting. , 2003, , 59-69.		0

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109	Time Series Analysis by Genetic Embedding and Neural Network Regression. Smart Innovation, Systems and Technologies, 2015, , 21-29.	0.5	0
110	A Probabilistic PCA Clustering Approach to the SVD Estimate of Signal Subspaces. , 2005, , 271-279.		0