Francesco Masulli

List of Publications by Year
in descending order

79 papers	1,645 citations	516710 16 h-index	315739 38 g-index
88 all docs	88 docs citations	88 times ranked	1472 citing authors

#	Article	IF	Citations
1	A survey of kernel and spectral methods for clustering. Pattern Recognition, 2008, 41, 176-190.	8.1	671
2	A fuzzy clustering based segmentation system as support to diagnosis in medical imaging. Artificial Intelligence in Medicine, 1999, 16, 129-147.	6.5	120
3	BFGS Optimization for Faster and Automated Supervised Learning. , 1990, , 757-760.		88
4	Soft transition from probabilistic to possibilistic fuzzy clustering. IEEE Transactions on Fuzzy Systems, 2006, 14, 516-527.	9.8	81
5	A time delay neural network for estimation of gas concentrations in a mixture. Sensors and Actuators B: Chemical, 2000, 65, 267-269.	7.8	38
6	Applying the Possibilistic c-Means Algorithm in Kernel-Induced Spaces. IEEE Transactions on Fuzzy Systems, 2010, 18, 572-584.	9.8	34
7	The response function of organic scintillators to fast neutrons. Nuclear Instruments & Methods, 1979, 165, 217-224.	1.2	33
8	Application of an ensemble technique based on singular spectrum analysis to daily rainfall forecasting. Neural Networks, 2003, 16, 375-387.	5.9	33
9	Effectiveness of Error Correcting Output Codes in Multiclass Learning Problems. Lecture Notes in Computer Science, 2000, , 107-116.	1.3	33
10	Bot recognition in a Web store: An approach based on unsupervised learning. Journal of Network and Computer Applications, 2020, 157, 102577.	9.1	29
11	Natural computing methods in bioinformatics: A survey. Information Fusion, 2009, 10, 211-216.	19.1	24
12	Brain Tumor Detection and Classification from Multi-sequence MRI: Study Using ConvNets. Lecture Notes in Computer Science, 2019, , 170-179.	1.3	24
13	Monitoring reliability of sensors in an array by neural networks. Sensors and Actuators B: Chemical, 2000, 67, 128-133.	7.8	22
14	Anomalous sound event detection: A survey of machine learning based methods and applications. Multimedia Tools and Applications, 2022, 81, 5537-5586.	3.9	21
15	NEURObjects: an object-oriented library for neural network development. Neurocomputing, 2002, 48, 623-646.	5.9	20
16	Possibilistic Approach to Biclustering: An Application to Oligonucleotide Microarray Data Analysis. Lecture Notes in Computer Science, 2006, , 312-322.	1.3	18
17	Computational intelligence and machine learning in bioinformatics. Artificial Intelligence in Medicine, 2009, 45, 91-96.	6.5	17
18	An experimental analysis of the dependence among codeword bit errors in ECOC learning machines. Neurocomputing, 2004, 57, 189-214.	5.9	16

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19	Clustering of nonstationary data streams: A survey of fuzzy partitional methods. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2018, 8, e1258.	6.8	16
20	Online Web Bot Detection Using a Sequential Classification Approach. , 2018, , .		15
21	Community Detection in Protein-Protein Interaction Networks Using Spectral and Graph Approaches. Lecture Notes in Computer Science, 2014, , 62-75.	1.3	15
22	Shared farthest neighbor approach to clustering of high dimensionality, low cardinality data. Pattern Recognition, 2006, 39, 2415-2425.	8.1	14
23	Linear Fuzzy Clustering With Selection of Variables Using Graded Possibilistic Approach. IEEE Transactions on Fuzzy Systems, 2007, 15, 878-889.	9.8	14
24	Efficient on-the-fly Web bot detection. Knowledge-Based Systems, 2021, 223, 107074.	7.1	14
25	Effect of different font sizes and of spaces between words on eye movement performance: An eye tracker study in dyslexic and non-dyslexic children. Vision Research, 2018, 153, 24-29.	1.4	13
26	Building a neuro-fuzzy system to efficiently forecast chaotic time series. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 389, 264-267.	1.6	12
27	Tracking Time Evolving Data Streams for Short-Term Traffic Forecasting. Data Science and Engineering, 2017, 2, 210-223.	6.4	12
28	Segmentation of multivariate medical images via unsupervised clustering with â€œadaptive resolutionâ€• Computerized Medical Imaging and Graphics, 1996, 20, 119-129.	5.8	11
29	Advances in fuzzy sets and rough sets. International Journal of Approximate Reasoning, 2006, 41, 75-76.	3.3	10
30	Fuzzy Clustering for Exploratory Analysis of EEG Event-Related Potentials. IEEE Transactions on Fuzzy Systems, 2020, 28, 28-38.	9.8	10
31	Rough annealing by two-step clustering, with application to neuronal signals. Journal of Neuroscience Methods, 1998, 85, 81-87.	2.5	9
32	Ambiguity and structural information in the perception of reversible figures. Perception & Psychophysics, 1989, 45, 501-513.	2.3	8
33	Dependence among Codeword Bits Errors in ECOC Learning Machines: An Experimental Analysis. Lecture Notes in Computer Science, 2001, , 158-167.	1.3	8
34	Bot or Not? A Case Study on Bot Recognition from Web Session Logs. Smart Innovation, Systems and Technologies, 2019, , 197-206.	0.6	8
35	Vector quantization and fuzzy ranks for image reconstruction. Image and Vision Computing, 2007, 25, 204-213.	4.5	7
36	Simulated annealing for supervised gene selection. Soft Computing, 2011, 15, 1471-1482.	3.6	7

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37	Visual stability analysis for model selection in graded possibilistic clustering. Information Sciences, 2014, 279, 37-51.	6.9	7
38	Clustering High-Dimensional Data. Lecture Notes in Computer Science, 2015, , 1-13.	1.3	7
39	Unsupervised Gene Selection and Clustering Using Simulated Annealing. Lecture Notes in Computer Science, 2006, , 229-235.	1.3	7
40	A Novel Approach for Biclustering Gene Expression Data Using Modular Singular Value Decomposition. Lecture Notes in Computer Science, 2010, , 254-265.	1.3	7
41	An Experimental Validation of Some Indexes of Fuzzy Clustering Similarity. Lecture Notes in Computer Science, 2009, , 132-139.	1.3	7
42	Rule Specialization in Networks of Fuzzy Basis Functions. Intelligent Automation and Soft Computing, 1998, 4, 73-81.	2.1	6
43	Stability and Performances in Biclustering Algorithms. Lecture Notes in Computer Science, 2009, , 91-101.	1.3	6
44	Possibilistic clustering approach to trackless ring Pattern Recognition in RICH counters. International Journal of Approximate Reasoning, 2006, 41, 96-109.	3.3	5
45	Layered ensemble model for short-term traffic flow forecasting with outlier detection. , 2016, , .		5
46	Toward development of PreVoid alerting system for nocturnal enuresis patients: A fuzzy-based approach for determining the level of liquid encased in urinary bladder. Artificial Intelligence in Medicine, 2020, 106, 101819.	6.5	5
47	Random Voronoi ensembles for gene selection. Neurocomputing, 2003, 55, 721-726.	5.9	4
48	<title>Three-dimensional visualization and navigation tool for diagnostic and surgical planning applications</title>. , 2001, 4319, 507.		3
49	Clustering in the membership embedding space. International Journal of Knowledge Engineering and Soft Data Paradigms, 2009, 1, 363.	0.0	3
50	Boosting and Classification of Electronic Nose Data. Lecture Notes in Computer Science, 2002, , 262-271.	1.3	3
51	Fall Detection Using an Ensemble of Learning Machines. Smart Innovation, Systems and Technologies, 2013, , 81-90.	0.6	3
52	Emotion Recognition from Speech: An Unsupervised Learning Approach. International Journal of Computational Intelligence Systems, 2021, 14, 23.	2.7	3
53	A fuzzy approach to image analysis in HLA typing using oligonucleotide microarrays. Fuzzy Sets and Systems, 2005, 152, 37-48.	2.7	2
54	Natural Computing Methods in Bioinformatics. Information Fusion, 2009, 10, 210.	19.1	2

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55	Unsupervised Analysis of Event-Related Potentials (ERPs) During an Emotional Go/NoGo Task. Lecture Notes in Computer Science, 2017, , 151-161.	1.3	2
56	Measuring Clustering Model Complexity. Lecture Notes in Computer Science, 2017, , 434-441.	1.3	2
57	Automatic Approaches for CE-MRI Examination of the Breast: A Survey. , 2017, , .		2
58	Detecting Overlapping Protein Communities in Disease Networks. Lecture Notes in Computer Science, 2015, , 109-120.	1.3	2
59	The â€œProbabilistic Rand Indexâ€: A Look from Some Different Perspectives. Smart Innovation, Systems and Technologies, 2020, , 95-105.	0.6	2
60	A Quantum-Inspired Classifier for Early Web Bot Detection. IEEE Transactions on Information Forensics and Security, 2022, 17, 1684-1697.	6.9	2
61	Time-compressed video pictures for vision research. IEEE Transactions on Biomedical Engineering, 1988, 35, 210-214.	4.2	1
62	<title>Neuro-fuzzy system for chaotic time series forecasting</title>. , 1997, , .		1
63	Genetic algorithm-based neural error correcting output classifier. , 2014, , .		1
64	Comparison of Methods for Community Detection in Networks. Lecture Notes in Computer Science, 2016, , 216-224.	1.3	1
65	Online Spectral Clustering and the Neural Mechanisms of Concept Formation. Smart Innovation, Systems and Technologies, 2015, , 61-72.	0.6	1
66	Comparing Fuzzy Clusterings in High Dimensionality. Lecture Notes in Computer Science, 2015, , 50-71.	1.3	1
67	Tuning Graded Possibilistic Clustering by Visual Stability Analysis. Lecture Notes in Computer Science, 2011, , 164-171.	1.3	1
68	Stochastic Dynamics and Input Dimensionality in a Two-Layer Neuronal Network for Modelling Multistable Perception. , 1990, , 1019-1022.		1
69	Possibilistic Clustering in Feature Space. Lecture Notes in Computer Science, 2007, , 219-226.	1.3	1
70	A Novel Pitch Detection Algorithm Based on Instantaneous Frequency for Clean and Noisy Speech. Circuits, Systems, and Signal Processing, 0, , .	2.0	1
71	An Algorithm to Model Paradigm Shifting in Fuzzy Clustering. Lecture Notes in Computer Science, 2003, , 70-76.	1.3	0
72	Soft ranking in clustering. Neurocomputing, 2009, 72, 2028-2031.	5.9	0

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73	Searching for microRNA prostate cancer target genes. , 2009, , .		0
74	Advances in Computational Intelligence and Bioinformatics. Soft Computing, 2011, 15, 1457-1458.	3.6	0
75	Soft Clustering: Why and How-To. Lecture Notes in Computer Science, 2019, , 67-82.	1.3	0
76	Neighbor-Based Similarities. Lecture Notes in Computer Science, 2013, , 161-170.	1.3	0
77	Hubs and Communities Identification in Dynamical Financial Networks. Smart Innovation, Systems and Technologies, 2015, , 93-101.	0.6	0
78	Semantic Clustering for Identifying Overlapping Biological Communities. Lecture Notes in Computer Science, 2017, , 235-247.	1.3	0
79	Membership Embedding Space Approach and Spectral Clustering. , 2007, , 901-908.		0