

Giovanna Castellano

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

1,594
citations

361045

20
h-index

395343

33
g-index

121
all docs

121
docs citations

121
times ranked

1288
citing authors

#	ARTICLE	IF	CITATIONS
1	An iterative pruning algorithm for feedforward neural networks. IEEE Transactions on Neural Networks, 1997, 8, 519-531.	4.8	228
2	Variable selection using neural-network models. Neurocomputing, 2000, 31, 1-13.	3.5	104
3	Using Convolutional Neural Networks for Predictive Process Analytics. , 2019, , .		52
4	Meta-data: Characterization of Input Features for Meta-learning. Lecture Notes in Computer Science, 2005, , 457-468.	1.0	49
5	Knowledge discovery by a neuro-fuzzy modeling framework. Fuzzy Sets and Systems, 2005, 149, 187-207.	1.6	47
6	A neuro-fuzzy network to generate human-understandable knowledge from data. Cognitive Systems Research, 2002, 3, 125-144.	1.9	43
7	Distinguishability quantification of fuzzy sets. Information Sciences, 2007, 177, 130-149.	4.0	43
8	Deep learning approaches to pattern extraction and recognition in paintings and drawings: an overview. Neural Computing and Applications, 2021, 33, 12263-12282.	3.2	37
9	Using Adaptive Thresholding and Skewness Correction to Detect Gray Areas in Melanoma In Situ Images. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1839-1847.	2.4	36
10	Crowd Detection in Aerial Images Using Spatial Graphs and Fully-Convolutional Neural Networks. IEEE Access, 2020, 8, 64534-64544.	2.6	34
11	Data Stream Classification by Dynamic Incremental Semi-Supervised Fuzzy Clustering. International Journal on Artificial Intelligence Tools, 2019, 28, 1960009.	0.7	33
12	A mHealth solution for contact-less self-monitoring of blood oxygen saturation. , 2020, , .		33
13	NEWER: A system for NEuro-fuzzy WEb Recommendation. Applied Soft Computing Journal, 2011, 11, 793-806.	4.1	31
14	Fuzzy mathematical morphology for biological image segmentation. Applied Intelligence, 2014, 41, 117-127.	3.3	31
15	An Empirical Risk Functional to Improve Learning in a Neuro-Fuzzy Classifier. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 725-731.	5.5	29
16	Combining image analysis and modular neural networks for classification of mineral inclusions and pores in archaeological potsherds. Journal of Archaeological Science, 2014, 50, 262-272.	1.2	29
17	A Texture-Based Image Processing Approach for the Description of Human Oocyte Cytoplasm. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 2591-2601.	2.4	28
18	Contact-Less Real-Time Monitoring of Cardiovascular Risk Using Video Imaging and Fuzzy Inference Rules. Information (Switzerland), 2019, 10, 9.	1.7	27

#	ARTICLE	IF	CITATIONS
19	PeppeRecycle: Improving Children's Attitude Toward Recycling by Playing with a Social Robot. <i>International Journal of Social Robotics</i> , 2021, 13, 97-111.	3.1	27
20	ON THE ROLE OF INTERPRETABILITY IN FUZZY DATA MINING. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2007, 15, 521-537.	0.9	26
21	Visual link retrieval and knowledge discovery in painting datasets. <i>Multimedia Tools and Applications</i> , 2021, 80, 6599-6616.	2.6	25
22	A Multi-View Deep Learning Approach for Predictive Business Process Monitoring. <i>IEEE Transactions on Services Computing</i> , 2022, 15, 2382-2395.	3.2	25
23	Automatic generation of fuzzy rules for reactive robot controllers. <i>Robotics and Autonomous Systems</i> , 1997, 22, 133-149.	3.0	24
24	MR Brain Image Segmentation: A Framework to Compare Different Clustering Techniques. <i>Information (Switzerland)</i> , 2017, 8, 138.	1.7	19
25	Crowd Detection for Drone Safe Landing Through Fully-Convolutional Neural Networks. <i>Lecture Notes in Computer Science</i> , 2020, , 301-312.	1.0	19
26	Explaining smartphone-based acoustic data in bipolar disorder: Semi-supervised fuzzy clustering and relative linguistic summaries. <i>Information Sciences</i> , 2022, 588, 174-195.	4.0	19
27	Shape annotation by semi-supervised fuzzy clustering. <i>Information Sciences</i> , 2014, 289, 148-161.	4.0	16
28	Deriving prediction intervals for neuro-fuzzy networks. <i>Mathematical and Computer Modelling</i> , 2005, 42, 719-726.	2.0	15
29	ORANGE: Outcome-Oriented Predictive Process Monitoring Based on Image Encoding and CNNs. <i>IEEE Access</i> , 2020, 8, 184073-184086.	2.6	15
30	Towards a Tool for Visual Link Retrieval and Knowledge Discovery in Painting Datasets. <i>Communications in Computer and Information Science</i> , 2020, , 105-110.	0.4	15
31	Biologically inspired emotion recognition from speech. <i>Eurasip Journal on Advances in Signal Processing</i> , 2011, 2011, .	1.0	14
32	Incremental adaptive semi-supervised fuzzy clustering for data stream classification. , 2018, , .		14
33	Evolutionary Neuro-Fuzzy Systems and Applications. <i>Studies in Computational Intelligence</i> , 2007, , 11-45.	0.7	13
34	A Predictive Model for MicroRNA Expressions in Pediatric Multiple Sclerosis Detection. <i>Lecture Notes in Computer Science</i> , 2019, , 177-188.	1.0	13
35	Evaluating the robustness of a contact-less mHealth solution for personal and remote monitoring of blood oxygen saturation. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2022, , 1-10.	3.3	13
36	MicroRNA expression classification for pediatric multiple sclerosis identification. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 15851-15860.	3.3	12

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37	Learning waste Recycling by playing with a Social Robot. , 2019, , .		11
38	FISDeT: Fuzzy Inference System Development Tool. International Journal of Computational Intelligence Systems, 2017, 10, 13.	1.6	11
39	Similarity-Based Fuzzy Clustering for User Profiling. , 2007, , .		10
40	A multi-agent system for enabling collaborative situation awareness via position-based stigmergy and neuro-fuzzy learning. Neurocomputing, 2014, 135, 86-97.	3.5	10
41	Shape annotation for intelligent image retrieval. Applied Intelligence, 2016, 44, 179-195.	3.3	10
42	A Fuzzy Rule-Based Decision Support System for Cardiovascular Risk Assessment. Lecture Notes in Computer Science, 2019, , 97-108.	1.0	10
43	Classification of mineral inclusions in ancient ceramics: comparing different modal analysis strategies. Archaeological and Anthropological Sciences, 2019, 11, 2557-2567.	0.7	10
44	Explaining Ovarian Cancer Gene Expression Profiles with Fuzzy Rules and Genetic Algorithms. Electronics (Switzerland), 2021, 10, 375.	1.8	10
45	Modeling User Preferences through Adaptive Fuzzy Profiles. , 2009, , .		9
46	The FISDeT software: Application to beer style classification. , 2017, , .		9
47	Web User Profiling Using Fuzzy Clustering. Lecture Notes in Computer Science, 2007, , 94-101.	1.0	9
48	Multi-view Convolutional Network for Crowd Counting in Drone-Captured Images. Lecture Notes in Computer Science, 2020, , 588-603.	1.0	9
49	Balancing Accuracy and Interpretability through Neuro-Fuzzy Models for Cardiovascular Risk Assessment. , 2021, , .		9
50	Dynamic Incremental Semi-supervised Fuzzy Clustering for Bipolar Disorder Episode Prediction. Lecture Notes in Computer Science, 2020, , 79-93.	1.0	8
51	A Fuzzy Set Approach for Shape-Based Image Annotation. Lecture Notes in Computer Science, 2011, , 236-243.	1.0	8
52	Simplifying a neuro-fuzzy model. Neural Processing Letters, 1996, 4, 75-81.	2.0	7
53	Balancing Interpretability and Accuracy by Multi-Level Fuzzy Information Granulation. , 2006, , .		7
54	Mindful: A framework for Meta-INDuctive neuro-FUzzy Learning. Information Sciences, 2008, 178, 3253-3274.	4.0	7

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55	LEARNING FUZZY USER PROFILES FOR RESOURCE RECOMMENDATION. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2010, 18, 389-410.	0.9	7
56	Deep Convolutional Embedding for Digitized Painting Clustering. , 2021, , .		7
57	Innovations in Web Personalization. Studies in Computational Intelligence, 2009, , 1-26.	0.7	7
58	How to Derive Fuzzy User Categories for Web Personalization. Studies in Computational Intelligence, 2009, , 65-79.	0.7	7
59	Web Usage Mining: Discovering Usage Patterns for Web Applications. Studies in Computational Intelligence, 2013, , 75-104.	0.7	7
60	Real-Time Age Estimation from Facial Images Using YOLO and EfficientNet. Lecture Notes in Computer Science, 2021, , 275-284.	1.0	7
61	Iterative pruning in second-order recurrent neural networks. Neural Processing Letters, 1995, 2, 5-8.	2.0	6
62	Fuzzy classification of image pixels. , 0, , .		6
63	Incremental and Adaptive Fuzzy Clustering for Virtual Learning Environments Data Analysis. , 2019, , .		6
64	Exploiting Time in Adaptive Learning from Educational Data. Communications in Computer and Information Science, 2021, , 3-16.	0.4	6
65	Intelligent analysis of data streams about phone calls for bipolar disorder monitoring. , 2021, , .		6
66	Fuzzy Image Labeling by Partially Supervised Shape Clustering. Lecture Notes in Computer Science, 2011, , 84-93.	1.0	6
67	Preliminary Evaluation of TinyYOLO on a New Dataset for Search-and-Rescue with Drones. , 2020, , .		6
68	A collaborative situation-aware scheme for mobile service recommendation. , 2011, , .		5
69	A collaborative situation-aware scheme based on an emergent paradigm for mobile resource recommenders. Journal of Ambient Intelligence and Humanized Computing, 2013, 4, 421-437.	3.3	5
70	Automatic Emotion Recognition from Facial Expressions when Wearing a Mask. , 2021, , .		5
71	Categorization of Web Users by Fuzzy Clustering. Lecture Notes in Computer Science, 2008, , 222-229.	1.0	5
72	Content-based image retrieval by shape matching. , 2006, , .		4

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73	Multiresolution texture analysis for human oocyte cytoplasm description. , 2009, , .		4
74	A personal healthcare system for contact-less estimation of cardiovascular parameters. , 2018, , .		4
75	Crowd Counting from Unmanned Aerial Vehicles with Fully-Convolutional Neural Networks. , 2020, , .		4
76	On the use of FIS inside a Telehealth system for cardiovascular risk monitoring. , 2021, , .		4
77	A Brief Overview of Deep Learning Approaches to Pattern Extraction and Recognition in Paintings and Drawings. Lecture Notes in Computer Science, 2021, , 487-501.	1.0	4
78	Human Detection in Drone Images Using YOLO for Search-and-Rescue Operations. Lecture Notes in Computer Science, 2022, , 326-337.	1.0	4
79	Interface optimality in fuzzy inference systems. International Journal of Approximate Reasoning, 2006, 41, 128-145.	1.9	3
80	Mining Diagnostic Rules Using Fuzzy Clustering. , 0, , 211-228.		3
81	Recommendation Rule Extraction by a Neuro-Fuzzy Approach. , 2008, , .		3
82	Adaptive segmentation of gray areas in dermoscopy images. , 2011, , .		3
83	Educational Stream Data Analysis: A Case Study. , 2020, , .		3
84	A Modular Neuro-Fuzzy Network for Musical Instruments Classification. Lecture Notes in Computer Science, 2000, , 372-382.	1.0	3
85	FOX: a neuro-Fuzzy model for process Outcome prediction and eXplanation. , 2021, , .		3
86	KERNEL: A Matlab Toolbox for Knowledge Extraction and Refinement by NEural Learning. Lecture Notes in Computer Science, 2002, , 970-979.	1.0	3
87	Similarity-Based Fuzzy Clustering for User Profiling. , 2007, , .		2
88	REXWERE: A tool for fuzzy Rule EXtraction in WEb REcommendation. , 2007, , .		2
89	NEWER: A neuro fuzzy Web recommendation system. , 2008, , .		2
90	RECODE: revision control for digital images. Multimedia Tools and Applications, 2019, 78, 33169-33188.	2.6	2

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91	Improving the Classification Ability of DC* Algorithm. Lecture Notes in Computer Science, 2007, , 145-151.	1.0	2
92	Retrieving Visually Linked Digitized Paintings. , 2021, , 233-247.		2
93	Detection of Dementia Through 3D Convolutional Neural Networks Based on Amyloid PET. , 2021, , .		2
94	Effect of fuzziness in fuzzy rule-based classifiers defined by strong fuzzy partitions and winner-takes-all inference. Soft Computing, 0, , 1.	2.1	2
95	<title>Optimization of a fuzzy controller by genetic algorithms</title>. , 1997, , .		1
96	Neuro-fuzzy analysis of dermatological images. , 0, , .		1
97	Fuzzy Information Granulation with Multiple Levels of Granularity. Intelligent Systems Reference Library, 2011, , 185-202.	1.0	1
98	Fuzzy clustering based encoding for Visual Object Classification. , 2013, , .		1
99	Incremental semi-supervised fuzzy clustering for shape annotation. , 2014, , .		1
100	A Revision Control System for Image Editing in Collaborative Multimedia Design. , 2018, , .		1
101	Special Issue on Fuzzy Logic for Image Processing. Information (Switzerland), 2018, 9, 3.	1.7	1
102	Automatic Clustering of CT Scans of COVID-19 Patients Based on Deep Learning. Lecture Notes in Computer Science, 2021, , 231-242.	1.0	1
103	Deep Convolutional Embedding for Painting Clustering: Case Study on Picasso's Artworks. Lecture Notes in Computer Science, 2020, , 68-78.	1.0	1
104	Shape Annotation by Incremental Semi-supervised Fuzzy Clustering. Lecture Notes in Computer Science, 2013, , 193-200.	1.0	1
105	<title>Optimizing a fuzzy logic controller for reactive navigation</title>. , 1997, , .		0
106	A hierarchical modular architecture for musical instrument classification. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2005, 9, 173-182.	0.7	0
107	HUGE: an integrated system for Human Understandable Granule Extraction. , 0, , .		0
108	Fuzzy Shape Clustering for Image Retrieval. , 2013, , .		0

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109	Morphological Analysis. Springer Briefs in Electrical and Computer Engineering, 2017, , 107-119.	0.3	0
110	Image Segmentation. Springer Briefs in Electrical and Computer Engineering, 2017, , 93-105.	0.3	0
111	Special Issue on Computational Intelligence for Healthcare. Electronics (Switzerland), 2021, 10, 1841.	1.8	0
112	Editorial for Special Issue "Fine Art Pattern Extraction and Recognition". Journal of Imaging, 2021, 7, 195.	1.7	0
113	Bi-monotonic Fuzzy Sets Lead to Optimal Fuzzy Interfaces. Lecture Notes in Computer Science, 2006, , 39-45.	1.0	0
114	Exploring the Way for Meta-learning with the Mindful System. Lecture Notes in Computer Science, 2006, , 404-409.	1.0	0
115	A System for Deriving a Neuro-Fuzzy Recommendation Model. Lecture Notes in Computer Science, 2009, , 279-286.	1.0	0
116	Musical Style Classification Using Low-Level Features. Lecture Notes in Computer Science, 2009, , 288-298.	1.0	0