

Olivia Mendoza

List of Publications by Year in descending order

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45
papers

1,411
citations

567144

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477173

29
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46
all docs

46
docs citations

46
times ranked

827
citing authors

#	ARTICLE	IF	CITATIONS
1	Edge-Detection Method for Image Processing Based on Generalized Type-2 Fuzzy Logic. IEEE Transactions on Fuzzy Systems, 2014, 22, 1515-1525.	6.5	222
2	An improved sobel edge detection method based on generalized type-2 fuzzy logic. Soft Computing, 2016, 20, 773-784.	2.1	158
3	An improved method for edge detection based on interval type-2 fuzzy logic. Expert Systems With Applications, 2010, 37, 8527-8535.	4.4	141
4	Optimization of interval type-2 fuzzy systems for image edge detection. Applied Soft Computing Journal, 2016, 47, 631-643.	4.1	136
5	Face Recognition With an Improved Interval Type-2 Fuzzy Logic Sugeno Integral and Modular Neural Networks. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2011, 41, 1001-1012.	3.4	118
6	Interval type-2 fuzzy logic and modular neural networks for face recognition applications. Applied Soft Computing Journal, 2009, 9, 1377-1387.	4.1	84
7	A hybrid modular neural network architecture with fuzzy Sugeno integration for time series forecasting. Applied Soft Computing Journal, 2007, 7, 1217-1226.	4.1	82
8	A hybrid approach for image recognition combining type-2 fuzzy logic, modular neural networks and the Sugeno integral. Information Sciences, 2009, 179, 2078-2101.	4.0	74
9	Fuzzy Sets in Dynamic Adaptation of Parameters of a Bee Colony Optimization for Controlling the Trajectory of an Autonomous Mobile Robot. Sensors, 2016, 16, 1458.	2.1	64
10	Interval type-2 fuzzy logic for edges detection in digital images. International Journal of Intelligent Systems, 2009, 24, 1115-1133.	3.3	45
11	A New Method for Edge Detection in Image Processing Using Interval Type-2 Fuzzy Logic. , 2007, , .		33
12	An Interval Type-2 Fuzzy Neural Network for Chaotic Time Series Prediction with Cross-Validation and Akaike Test. Studies in Computational Intelligence, 2010, , 269-285.	0.7	30
13	Type-2 Fuzzy Logic for Improving Training Data and Response Integration in Modular Neural Networks for Image Recognition. Lecture Notes in Computer Science, 2007, , 604-612.	1.0	26
14	Modular Neural Networks and Type-2 Fuzzy Logic for Face Recognition. , 2007, , .		25
15	General Type-2 Fuzzy Sugeno Integral for Edge Detection. Journal of Imaging, 2019, 5, 71.	1.7	19
16	Fuzzy Index to Evaluate Edge Detection in Digital Images. PLoS ONE, 2015, 10, e0131161.	1.1	17
17	Method for Higher Order polynomial Sugeno Fuzzy Inference Systems. Information Sciences, 2016, 351, 76-89.	4.0	15
18	Comparison of Fuzzy Edge Detectors Based on the Image Recognition Rate as Performance Index Calculated with Neural Networks. Studies in Computational Intelligence, 2010, , 389-399.	0.7	12

#	ARTICLE	IF	CITATIONS
19	Type-2 Fuzzy Systems for Improving Training Data and Decision Making in Modular Neural Networks for Image Recognition. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	11
20	Interpretable Mamdani neuro-fuzzy model through context awareness and linguistic adaptation. Expert Systems With Applications, 2022, 189, 116098.	4.4	11
21	General Type-2 Fuzzy Edge Detection in the Preprocessing of a Face Recognition System. Studies in Computational Intelligence, 2017, , 3-18.	0.7	10
22	Comparison between Choquet and Sugeno integrals as aggregation operators for modular neural networks. , 2016, , .		7
23	Interval Type-2 Fuzzy Logic for Module Relevance Estimation in Sugeno Integration of Modular Neural Networks. Studies in Computational Intelligence, 2008, , 115-127.	0.7	7
24	A New Method for Edge Detection in Image Processing Using Interval Type-2 Fuzzy Logic. , 2007, , .		6
25	Interval type-2 fuzzy logic for image edge detection quality evaluation. , 2012, , .		6
26	Comparison between Choquet and Sugeno integrals as aggregation operators for pattern recognition. , 2016, , .		6
27	A new evolutionary method with fuzzy logic for combining Particle Swarm Optimization and Genetic Algorithms: The case of neural networks optimization. , 2008, , .		5
28	Generalized type-2 fuzzy logic in response integration of modular neural networks. , 2013, , .		5
29	General Type-2 fuzzy edge detectors applied to face recognition systems. , 2016, , .		5
30	Response integration in modular neural networks using Choquet Integral with Interval type 2 Sugeno measures. , 2015, , .		4
31	Color Image Edge Detection Method Based on Interval Type-2 Fuzzy Systems. Studies in Computational Intelligence, 2015, , 3-11.	0.7	4
32	General type-2 fuzzy edge detector applied on face recognition system using neural networks. , 2016, , .		3
33	An approach on the implementation of full batch, online and mini-batch learning on a Mamdani based neuro-fuzzy system with center-of-sets defuzzification: Analysis and evaluation about its functionality, performance, and behavior. PLoS ONE, 2019, 14, e0221369.	1.1	3
34	Optimization by Cuckoo Search of Interval Type-2 Fuzzy Logic Systems for Edge Detection. Studies in Fuzziness and Soft Computing, 2016, , 141-154.	0.6	3
35	Optimization method for membership functions of type-2 fuzzy systems based on the level of uncertainty applied to the response integration of modular neural network for multimodal biometrics. , 2012, , .		2
36	Interval type-2 fuzzy integral to improve the performance of edge detectors based on the gradient measure. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
37	A visual toolbox for modeling and testing multi- ϵ net neural systems. Computer Applications in Engineering Education, 2013, 21, 164-184.	2.2	2
38	Semantic Capture Analysis in Word Embedding Vectors Using Convolutional Neural Network. Advances in Intelligent Systems and Computing, 2017, , 106-114.	0.5	2
39	On Modeling Tacit Knowledge for Intelligent Systems. Studies in Systems, Decision and Control, 2018, , 69-87.	0.8	2
40	Choquet Integral with Interval Type 2 Sugeno Measures as an Integration Method for Modular Neural Networks. Studies in Fuzziness and Soft Computing, 2016, , 71-86.	0.6	1
41	Optimization of Ensemble Neural Networks with Type-1 and Interval Type-2 Fuzzy Integration for Forecasting the Taiwan Stock Exchange. Studies in Computational Intelligence, 2018, , 169-181.	0.7	1
42	Estimating module relevance with Sugeno integration of modular neural networks using Interval Type-2 Fuzzy logic. , 2008, , .		0
43	Application of interval type-2 fuzzy logic for estimating module relevance in Sugeno integration of modular neural networks. , 2009, , .		0
44	Fuzzy operators for quality evaluation in images edge detection. , 2013, , .		0
45	Interval Type-2 Fuzzy System for Image Edge Detection Quality Evaluation Applied to Synthetic and Real Images. Studies in Computational Intelligence, 2013, , 147-157.	0.7	0