

Mauricio A Sanchez

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

993
citations

932766

10
h-index

610482

24
g-index

36
all docs

36
docs citations

36
times ranked

846
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized Type-2 Fuzzy Systems for controlling a mobile robot and a performance comparison with Interval Type-2 and Type-1 Fuzzy Systems. Expert Systems With Applications, 2015, 42, 5904-5914.	4.4	251
2	A generalized type-2 fuzzy granular approach with applications to aerospace. Information Sciences, 2016, 354, 165-177.	4.0	204
3	Information granule formation via the concept of uncertainty-based information with Interval Type-2 Fuzzy Sets representation and Takagi-Sugeno-Kang consequents optimized with Cuckoo search. Applied Soft Computing Journal, 2015, 27, 602-609.	4.1	138
4	Fuzzy granular gravitational clustering algorithm for multivariate data. Information Sciences, 2014, 279, 498-511.	4.0	113
5	Lightweight Authentication Protocol for M2M Communications of Resource-Constrained Devices in Industrial Internet of Things. Sensors, 2020, 20, 501.	2.1	62
6	Fuzzy higher type information granules from an uncertainty measurement. Granular Computing, 2017, 2, 95-103.	4.4	59
7	Review of Recent Type-2 Fuzzy Image Processing Applications. Information (Switzerland), 2017, 8, 97.	1.7	48
8	A New Method for Parameterization of General Type-2 Fuzzy Sets. Fuzzy Information and Engineering, 2018, 10, 31-57.	1.0	18
9	Hybrid Learning for General Type-2 TSK Fuzzy Logic Systems. Algorithms, 2017, 10, 99.	1.2	17
10	Method for Higher Order polynomial Sugeno Fuzzy Inference Systems. Information Sciences, 2016, 351, 76-89.	4.0	15
11	Interpretable Mamdani neuro-fuzzy model through context awareness and linguistic adaptation. Expert Systems With Applications, 2022, 189, 116098.	4.4	11
12	A Lightweight Cipher Based on Salsa20 for Resource-Constrained IoT Devices. Sensors, 2018, 18, 3326.	2.1	9
13	Fuzzy granular gravitational clustering algorithm. , 2012, , .		6
14	An Overview of Granular Computing Using Fuzzy Logic Systems. Studies in Computational Intelligence, 2017, , 19-38.	0.7	6
15	A hybrid method for IT2 TSK formation based on the principle of justifiable granularity and PSO for spread optimization. , 2013, , .		5
16	Formation of general type-2 Gaussian membership functions based on the information granule numerical evidence. , 2013, , .		5
17	Method for Measurement of Uncertainty Applied to the Formation of Interval Type-2 Fuzzy Sets. Studies in Computational Intelligence, 2015, , 13-25.	0.7	5
18	An Analysis on the Intrinsic Implementation of the Principle of Justifiable Granularity in Clustering Algorithms. Studies in Computational Intelligence, 2013, , 121-134.	0.7	3

#	ARTICLE	IF	CITATIONS
19	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
20	Uncertainty-Based Information Granule Formation. Studies in Computational Intelligence, 2014, , 113-123.	0.7	2
21	An Approach to Fuzzy Inference System Based Fuzzy Cognitive Maps. Studies in Systems, Decision and Control, 2018, , 151-166.	0.8	2
22	On Modeling Tacit Knowledge for Intelligent Systems. Studies in Systems, Decision and Control, 2018, , 69-87.	0.8	2
23	Modeling a Thermochemical Reactor of a Solar Refrigerator by BaCl ₂ -NH ₃ Sorption Using Artificial Neural Networks and Mathematical Symmetry Groups. Mathematical Problems in Engineering, 2020, 2020, 1-11.	0.6	2
24	The Role of Topography on the Shape of Unit Hydrographs in Small and Medium Sized Watersheds through a Physical Model. Water (Switzerland), 2020, 12, 2270.	1.2	2
25	An Analysis of the Relationship between the Size of the Clusters and the Principle of Justifiable Granularity in Clustering Algorithms. Studies in Fuzziness and Soft Computing, 2013, , 239-263.	0.6	1
26	Big Data and Computational Intelligence: Background, Trends, Challenges, and Opportunities. Studies in Systems, Decision and Control, 2018, , 183-196.	0.8	1
27	Advances in Granular Computing. SpringerBriefs in Applied Sciences and Technology, 2017, , 19-35.	0.2	1
28	Using Link Disconnection Entropy Disorder to Detect Fast Moving Nodes in MANETs. PLoS ONE, 2016, 11, e0155820.	1.1	0
29	Experimentation and Results Discussion. SpringerBriefs in Applied Sciences and Technology, 2017, , 37-49.	0.2	0
30	Method for Uncertainty Measurement and Its Application to the Formation of Interval Type-2 Fuzzy Sets. Advances in Intelligent Systems and Computing, 2016, , 61-74.	0.5	0
31	Knowledge transfer for labeling unknown fuzzy sets using Grammar-Guided Genetic Algorithms. Applied Soft Computing Journal, 2022, 124, 109019.	4.1	0