Marcos G Quiles

List of Publications by Year
in descending order

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70	579	686830 13	752256 20
papers	citations	h-index	g-index

77	77	77	579
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fake news agenda in the era of COVID-19: Identifying trends through fact-checking content. Online Social Networks and Media, 2021, 21, 100116.	2.3	62
2	Machine Learning Prediction of Nine Molecular Properties Based on the SMILES Representation of the QM9 Quantum-Chemistry Dataset. Journal of Physical Chemistry A, 2020, 124, 9854-9866.	1.1	50
3	Chaotic phase synchronization and desynchronization in an oscillator network for object selection. Neural Networks, 2009, 22, 728-737.	3.3	49
4	Particle competition for complex network community detection. Chaos, 2008, 18, 033107.	1.0	45
5	COVID-19 fake news diffusion across Latin America. Social Network Analysis and Mining, 2021, 11, 47.	1.9	27
6	Selecting salient objects in real scenes: An oscillatory correlation model. Neural Networks, 2011, 24, 54-64.	3.3	25
7	Ab Initio Insights into the Formation Mechanisms of 55-Atom Pt-Based Coreâ€“Shell Nanoalloys. Journal of Physical Chemistry C, 2020, 124, 1158-1164.	1.5	22
8	Ab Initio Investigation of CO2 Adsorption on 13-Atom 4d Clusters. Journal of Chemical Information and Modeling, 2020, 60, 537-545.	2.5	20
9	Semi-supervised learning from imperfect data through particle cooperation and competition. , 2010, , .		19
10	Particle competition and cooperation for semi-supervised learning with label noise. Neurocomputing, 2015, 160, 63-72.	3.5	18
11	Artificial Neural Networks and the Study of the Psychoactivity of Cannabinoid Compounds. Chemical Biology and Drug Design, 2010, 75, 632-640.	1.5	17
12	Dynamical detection of network communities. Scientific Reports, 2016, 6, 25570.	1.6	17
13	Spatiotemporal data analysis with chronological networks. Nature Communications, 2020, 11, 4036.	5.8	17
14	Community detection in complex networks via adapted Kuramoto dynamics. Communications in Nonlinear Science and Numerical Simulation, 2017, 53, 130-141.	1.7	13
15	Label propagation through neuronal synchrony. , 2010, , .		12
16	A biochemical network modeling of a whole-cell. Scientific Reports, 2020, 10, 13303.	1.6	9
17	From spatio-temporal data to chronological networks. , 2019, , .		8
18	An oscillatory correlation model of object-based attention. , 2009, , .		7

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19	Community Detection in Very High-Resolution Meteorological Networks. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 2007-2010.	1.4	7
20	Molecular Property Prediction and Molecular Design Using a Supervised Grammar Variational Autoencoder. Journal of Chemical Information and Modeling, 2022, 62, 817-828.	2.5	7
21	A network of integrate and fire neurons for visual selection. Neurocomputing, 2009, 72, 2198-2208.	3.5	6
22	A dynamical model for community detection in complex networks. , 2013, , .		6
23	Interactive image segmentation using particle competition and cooperation. , 2015, , .		6
24	Energy Decomposition to Access the Stability Changes Induced by CO Adsorption on Transition-Metal 13-Atom Clusters. Journal of Chemical Information and Modeling, 2021, 61, 2294-2301.	2.5	6
25	Systematic Investigation of Error Distribution in Machine Learning Algorithms Applied to the Quantum-Chemistry QM9 Data Set Using the Bias and Variance Decomposition. Journal of Chemical Information and Modeling, 2021, 61, 4210-4223.	2.5	6
26	A Visual Selection Mechanism Based on a Pulse-Coupled Neural Network. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	5
27	Visual Selection and Shifting Mechanisms Based on a Network of Chaotic Wilson-Cowan Oscillators. , 2007, , .		5
28	An alternative approach for binary and categorical self-organizing maps. , 2017, , .		5
29	Visual Selection with Feature Contrast-Based Inhibition in a Network of Integrate and Fire Neurons. , 2008, , .		4
30	An Object-Based Visual Selection Model with Bottom-Up and Top-Down Modulations. , 2012, , .		4
31	Clus-DTI: improving decision-tree classification with a clustering-based decision-tree induction algorithm. Journal of the Brazilian Computer Society, 2012, 18, 351-362.	0.8	4
32	An approach for applying Test-Driven Development (TDD) in the development of randomized algorithms. Journal of Software Engineering Research and Development, 2018, 6, .	1.0	4
33	Top-Down Biasing and Modulation for Object-Based Visual Attention. Lecture Notes in Computer Science, 2013, , 325-332.	1.0	4
34	Chaotic phase synchronization for visual selection. , 2009, , .		3
35	Particle Competition and Cooperation for Uncovering Network Overlap Community Structure. Lecture Notes in Computer Science, 2011, , 426-433.	1.0	3
36	Improving the Performance of an Integer Linear Programming Community Detection Algorithm Through Clique Filtering. Lecture Notes in Computer Science, 2019, , 757-769.	1.0	3

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37	How do urban mobility (geo)graphâ€™s topological properties fill a map?. Applied Network Science, 2019, 4, .	0.8	3
38	Correlation-Based Framework for Extraction of Insights from Quantum Chemistry Databases: Applications for Nanoclusters. Journal of Chemical Information and Modeling, 2021, 61, 1125-1135.	2.5	3
39	Topological indexes and community structure for urban mobility networks: Variations in a business day. PLoS ONE, 2021, 16, e0248126.	1.1	3
40	Force-directed algorithms as a tool to support community detection. European Physical Journal: Special Topics, 2021, 230, 2745-2763.	1.2	3
41	An Oscillatory Correlation Model for Semi-Supervised Classification. Learning and Nonlinear Models, 2013, 11, 3-10.	0.2	3
42	A clustering-based decision tree induction algorithm. , 2011, , .		2
43	A consensus-based semi-supervised growing neural gas. , 2014, , .		2
44	Development of Adaptive Information Visualization Systems with Augmented Reality. , 2014, , .		2
45	An object-based visual selection framework. Neurocomputing, 2016, 180, 35-54.	3.5	2
46	Classification of Cocaine Dependents from fMRI Data Using Cluster-Based Stratification and Deep Learning. Lecture Notes in Computer Science, 2017, , 298-313.	1.0	2
47	Recurrence Density Enhanced Complex Networks for Nonlinear Time Series Analysis. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850008.	0.7	2
48	Interactive Image Segmentation of Non-contiguous Classes Using Particle Competition and Cooperation. Lecture Notes in Computer Science, 2015, , 203-216.	1.0	2
49	A Pulse-Coupled Neural Network as A Simplified Bottom-Up Visual Attention Model. , 2006, , .		1
50	An Object-Based Visual Selection Model Combining Physical Features and Memory. , 2014, , .		1
51	Community Detection in Complex Networks Using Coupled Kuramoto Oscillators. , 2014, , .		1
52	Parallel Algorithm for Dynamic Community Detection. , 2017, , .		1
53	A correlation-based approach for event detection in Instagram. Journal of Intelligent and Fuzzy Systems, 2018, 34, 2971-2982.	0.8	1
54	Measuring the engagement level in encrypted group conversations by using temporal networks. , 2020, , .		1

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55	Automation of Article Selection Process in Systematic Reviews Through Artificial Neural Network Modeling and Machine Learning: Protocol for an Article Selection Model. JMIR Research Protocols, 2021, 10, e26448.	0.5	1
56	A Methodology for Generating Time-Varying Complex Networks with Community Structure. Lecture Notes in Computer Science, 2014, , 344-359.	1.0	1
57	Using Growing Neural Gas in Prototype Generation for Nearest Neighbor Classifiers. Lecture Notes in Computer Science, 2015, , 276-283.	1.0	1
58	A Graph-Based Clustering Analysis of the QM9 Dataset via SMILES Descriptors. Lecture Notes in Computer Science, 2020, , 421-433.	1.0	1
59	A Network of Dynamically Coupled Elements for Pixel Clustering. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	0
60	Community detection, with lower time complexity, using coupled Kuramoto oscillators. , 2015, , .		0
61	Sentiment and Behavior Analysis of One Controversial American Individual on Twitter. Lecture Notes in Computer Science, 2016, , 509-518.	1.0	0
62	Automatically Design Distance Functions for Graph-Based Semi-Supervised Learning. , 2017, , .		0
63	Preprocessing Technique for Cluster Editing via Integer Linear Programming. Lecture Notes in Computer Science, 2018, , 287-297.	1.0	0
64	Clustering Data Streams: A Complex Network Approach. Lecture Notes in Computer Science, 2019, , 52-65.	1.0	0
65	Qualitative data clustering: a new Integer Linear Programming model. , 2019, , .		0
66	Active Consensus-Based Semi-supervised Growing Neural Gas. Lecture Notes in Computer Science, 2016, , 126-135.	1.0	0
67	Dynamic Community Detection into Analyzing of Wildfires Events. Lecture Notes in Computer Science, 2020, , 1032-1047.	1.0	0
68	Monitoring Night Skies with Deep Learning. Communications in Computer and Information Science, 2020, , 460-468.	0.4	0
69	A Visual Selection Mechanism Based on Network of Chaotic Wilson-Cowan Oscillators. , 2007, , .		0
70	Importance of Numerical Implementation and Clustering Analysis in Force-Directed Algorithms for Accurate Community Detection. Applied Mathematics and Computation, 2022, 431, 127310.	1.4	0