

Rodrigo Fernandes de Mello

List of Publications by Year in descending order

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67
papers

720
citations

623734

14
h-index

677142

22
g-index

69
all docs

69
docs citations

69
times ranked

686
citing authors

#	ARTICLE	IF	CITATIONS
1	Persistent homology for time series and spatial data clustering. Expert Systems With Applications, 2015, 42, 6026-6038.	7.6	71
2	Enhancing the Sensor Node Localization Algorithm Based on Improved DV-Hop and DE Algorithms in Wireless Sensor Networks. Sensors, 2020, 20, 343.	3.8	52
3	On learning guarantees to unsupervised concept drift detection on data streams. Expert Systems With Applications, 2019, 117, 90-102.	7.6	38
4	Applying Empirical Mode Decomposition and mutual information to separate stochastic and deterministic influences embedded in signals. Signal Processing, 2016, 118, 159-176.	3.7	37
5	Multi-Keyword ranked search based on mapping set matching in cloud ciphertext storage system. Connection Science, 2021, 33, 95-112.	3.0	37
6	Improving time series modeling by decomposing and analyzing stochastic and deterministic influences. Signal Processing, 2013, 93, 3001-3013.	3.7	32
7	A novel approach for distributed application scheduling based on prediction of communication events. Future Generation Computer Systems, 2010, 26, 740-752.	7.5	30
8	A self-organizing neural network for detecting novelties. , 2007, , .		25
9	Designing architectures of convolutional neural networks to solve practical problems. Expert Systems With Applications, 2018, 94, 205-217.	7.6	25
10	Using dynamical systems tools to detect concept drift in data streams. Expert Systems With Applications, 2016, 60, 39-50.	7.6	20
11	Multidimensional surrogate stability to detect data stream concept drift. Expert Systems With Applications, 2017, 87, 15-29.	7.6	19
12	Cross-modality co-attention networks for visual question answering. Soft Computing, 2021, 25, 5411-5421.	3.6	17
13	An Online Data Access Prediction and Optimization Approach for Distributed Systems. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 1017-1029.	5.6	16
14	Semi-supervised time series classification on positive and unlabeled problems using cross-recurrence quantification analysis. Pattern Recognition, 2018, 80, 53-63.	8.1	16
15	Proposal of a new stability concept to detect changes in unsupervised data streams. Expert Systems With Applications, 2014, 41, 7350-7360.	7.6	14
16	A Technique to Reduce the Test Case Suites for Regression Testing Based on a Self-Organizing Neural Network Architecture. , 2006, , .		13
17	Prediction of dynamical, nonlinear, and unstable process behavior. Journal of Supercomputing, 2009, 49, 22-41.	3.6	13
18	Grid job scheduling using Route with Genetic Algorithm support. Telecommunication Systems, 2008, 38, 147-160.	2.5	12

#	ARTICLE	IF	CITATIONS
19	Applying a kernel function on time-dependent data to provide supervised-learning guarantees. Expert Systems With Applications, 2017, 71, 216-229.	7.6	12
20	Online behavior change detection in computer games. Expert Systems With Applications, 2013, 40, 6258-6265.	7.6	11
21	Discriminating seismic events of the Llama volcano (Chile) based on spectrogram cross-correlations. Journal of Volcanology and Geothermal Research, 2018, 367, 63-78.	2.1	11
22	Estimating determinism rates to detect patterns in geospatial datasets. Remote Sensing of Environment, 2015, 156, 11-20.	11.0	10
23	An On-Line Approach for Classifying and Extracting Application Behavior on Linux. , 2006, , 381-401.		9
24	Feature Scoring using Tree-Based Ensembles for Evolving Data Streams. , 2019, , .		8
25	Entropy-Based Approach to Analyze and Classify Mineral Aggregates. Journal of Computing in Civil Engineering, 2011, 25, 75-84.	4.7	7
26	Classification of time series generation processes using experimental tools: a survey and proposal of an automatic and systematic approach. International Journal of Computational Science and Engineering, 2011, 6, 217.	0.5	7
27	Llama volcano dataset: In-depth comparison of deep artificial neural network architectures on seismic events classification. Data in Brief, 2020, 30, 105627.	1.0	7
28	On Simulated Annealing for the Scheduling of Parallel Applications. , 2008, , .		6
29	Improving the performance and accuracy of time series modeling based on autonomic computing systems. Journal of Ambient Intelligence and Humanized Computing, 2011, 2, 11-33.	4.9	6
30	Energy-based function to evaluate data stream clustering. Advances in Data Analysis and Classification, 2013, 7, 435-464.	1.4	6
31	Testing for Linear and Nonlinear Gaussian Processes in Nonstationary Time Series. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550013.	1.7	6
32	Measuring the Shattering coefficient of Decision Tree models. Expert Systems With Applications, 2019, 137, 443-452.	7.6	6
33	Unsupervised change detection in data streams: an application in music analysis. Progress in Artificial Intelligence, 2015, 4, 1-10.	2.4	5
34	Data Streams Are Time Series: Challenging Assumptions. Lecture Notes in Computer Science, 2020, , 529-543.	1.3	5
35	A Model for Automatic On-Line Process Behavior Extraction, Classification and Prediction in Heterogeneous Distributed Systems. , 2007, , .		4
36	LEARNING PROCESS BEHAVIOR FOR FAULT DETECTION. International Journal on Artificial Intelligence Tools, 2011, 20, 969-980.	1.0	4

#	ARTICLE	IF	CITATIONS
37	Unsupervised density-based behavior change detection in data streams. Intelligent Data Analysis, 2014, 18, 181-201.	0.9	4
38	Comparative study of the server-initiated lowest algorithm using a load balancing index based on the process behavior for heterogeneous environment. Cluster Computing, 2006, 9, 313-319.	5.0	3
39	Logical process partitioning in distributed simulation using genetic algorithms. IEEE Latin America Transactions, 2008, 6, 97-105.	1.6	3
40	Adaptive Technique for Automatic Communication Access Pattern Discovery Applied to Data Prefetching in Distributed Applications Using Neural Networks and Stochastic Models. Lecture Notes in Computer Science, 2006, , 292-303.	1.3	3
41	Estimating data stream tendencies to adapt clustering parameters. International Journal of High Performance Computing and Networking, 2018, 11, 34.	0.4	3
42	On supervised learning to model and predict cattle weight in precision livestock breeding. Computers and Electronics in Agriculture, 2022, 195, 106706.	7.7	3
43	Supporting the transparent execution of high performance applications on grids. , 2007, , .		2
44	Data stream dynamic clustering supported by Markov chain isomorphisms. Intelligent Data Analysis, 2013, 17, 439-457.	0.9	2
45	PTS: Projected Topological Stream clustering algorithm. Neurocomputing, 2016, 180, 16-26.	5.9	2
46	Time complexity evaluation of cover song identification algorithms. Applied Acoustics, 2021, 175, 107777.	3.3	2
47	A Self-Organizing Neural Network to Approach Novelty Detection. , 2010, , 49-71.		2
48	Assessing Supervised Learning Algorithms. , 2018, , 129-161.		2
49	Quantifying Temporal Novelty in Social Networks Using Time-Varying Graphs and Concept Drift Detection. Lecture Notes in Computer Science, 2020, , 650-664.	1.3	2
50	IMPROVING SCHEDULING OF COMMUNICATION INTENSIVE PARALLEL APPLICATIONS ON HETEROGENEOUS COMPUTING ENVIRONMENTS. Parallel Processing Letters, 2005, 15, 423-438.	0.6	1
51	Image indexing and retrieval using an ART-2A neural network architecture. International Journal of Imaging Systems and Technology, 2008, 18, 202-208.	4.1	1
52	Toward an Efficient Middleware for Multithreaded Applications in Computational Grid. , 2008, , .		1
53	On modeling and evaluating multicomputer transcoding architectures for live-video streams. Multimedia Tools and Applications, 2009, 43, 109-129.	3.9	1
54	Extracting and predicting the communication behaviour of parallel applications. International Journal of Parallel, Emergent and Distributed Systems, 2009, 24, 225-242.	1.0	1

#	ARTICLE	IF	CITATIONS
55	Behavioral Study of UNIX Commands in a Faulty Environment. , 2009, , .		1
56	A Stable and Online Approach to Detect Concept Drift in Data Streams. , 2014, , .		1
57	Modelling distributed computing workloads to support the study of scheduling decisions. International Journal of Computational Science and Engineering, 2015, 11, 155.	0.5	1
58	Emprego de Banco de Filtros e do Teorema de Imersão de Takens em Padrões Espaciais para a Classificação de Imagem Óptica Motora em Interfaces Cérebro-Computador. Revista De Informatica Teorica E Aplicada, 2016, 23, 165.	0.2	1
59	On Accuracy and Time Processing Evaluation of Cover Song Identification Systems. Journal of New Music Research, 2016, 45, 333-342.	0.8	1
60	Color Quantization in Transfer Learning and Noisy Scenarios: An Empirical Analysis Using Convolutional Networks. , 2018, , .		1
61	Coarse-refinement dilemma: On generalization bounds for data clustering. Expert Systems With Applications, 2021, 184, 115399.	7.6	1
62	On Application Behavior Extraction and Prediction to Support and Improve Process Scheduling Decisions. , 2010, , 338-353.		1
63	A Migration Factor to determine the Process distribution in heterogeneous environments. IEEE Latin America Transactions, 2006, 4, 373-378.	1.6	0
64	Model for Automatic Text Classification and Categorization for Image Indexing and Retrieval. , 2007, , .		0
65	A two-level hierarchical scheduling method for independent tasks in grids. , 2008, , .		0
66	A Novel Approach to Quantify Novelty Levels Applied on Ubiquitous Music Distribution. , 2008, , .		0
67	Time series clustering using stochastic and deterministic influences. International Journal of Computational Science and Engineering, 2020, 21, 394.	0.5	0