

# Luis E ZÃ¡rate

## List of Publications by Year in descending order

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Version: 2024-02-01

98  
papers

734  
citations

933447

10  
h-index

642732

23  
g-index

100  
all docs

100  
docs citations

100  
times ranked

622  
citing authors

#	ARTICLE	IF	CITATIONS
1	Applying Artificial Neural Networks to prediction of stock price and improvement of the directional prediction index â€“ Case study of PETR4, Petrobras, Brazil. Expert Systems With Applications, 2013, 40, 7596-7606.	7.6	149
2	Educational Data Mining: A review of evaluation process in the e-learning. Telematics and Informatics, 2018, 35, 1701-1717.	5.8	113
3	Categorical data clustering: What similarity measure to recommend?. Expert Systems With Applications, 2015, 42, 1247-1260.	7.6	57
4	The use of artificial neural networks in the analysis and prediction of stock prices. , 2011, , .		40
5	A brief review of the main approaches for treatment of missing data. Intelligent Data Analysis, 2014, 18, 1177-1198.	0.9	35
6	Representation and control of the cold rolling process through artificial neural networks via sensitivity factors. Journal of Materials Processing Technology, 2008, 197, 344-362.	6.3	26
7	FCANN: A new approach for extraction and representation of knowledge from ANN trained via Formal Concept Analysis. Neurocomputing, 2008, 71, 2670-2684.	5.9	23
8	Comparison of Classifiers Efficiency on Missing Values Recovering: Application in a Marketing Database with Massive Missing Data. , 2007, , .		20
9	Qualitative behavior rules for the cold rolling process extracted from trained ANN via the FCANN method. Engineering Applications of Artificial Intelligence, 2009, 22, 718-731.	8.1	20
10	Handling high dimensionality contexts in formal concept analysis via binary decision diagrams. Information Sciences, 2018, 429, 361-376.	6.9	13
11	Identification and characterisation of Facebook user profiles considering interaction aspects. Behaviour and Information Technology, 2019, 38, 858-872.	4.0	13
12	Parallel and distributed kmeans to identify the translation initiation site of proteins. , 2012, , .		11
13	Hybrid thermal model for swimming pools based on artificial neural networks for southeast region of Brazil. Expert Systems With Applications, 2013, 40, 3106-3120.	7.6	10
14	A model-based predictive control scheme for steal rolling mills using neural networks. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2003, 25, .	1.6	9
15	Recommending Scientific Collaboration from ResearchGate. , 2018, , .		8
16	Extreme precipitation prediction based on neural network model â€“ A case study for southeastern Brazil. Journal of Hydrology, 2022, 606, 127454.	5.4	8
17	Determination of the thickness control parameters of the rolling process through the sensitivity method, using neural networks. , 1999, , .		7
18	Techniques for Training Sets Selection in the Representation of a Thermosiphon System Via ANN. , 2006, , .		7

#	ARTICLE	IF	CITATIONS
19	Artificial neural networks applied for representation of curves current-voltage of photovoltaic modules. , 2008, , .		7
20	A revision and analysis of the comprehensiveness of the main longitudinal studies of human aging for data mining research. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2017, 7, e1202.	6.8	7
21	A method to determinate the thickness control parameters in cold rolling process through predictive model via neural networks. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2005, 27, 357-363.	1.6	6
22	An Approach to Knowledge Extraction From ANN Through Formal Concept Analysis Computational Tool Proposal: SOPHIANN. , 2006, , .		6
23	Improvement in the prediction of the translation initiation site through balancing methods, inclusion of acquired knowledge and addition of features to sequences of mRNA. BMC Genomics, 2011, 12, S9.	2.8	6
24	SCGaz - A Synthetic Formal Context Generator with Density Control for Test and Evaluation of FCA Algorithms. , 2013, , .		6
25	Multi-Objective Genetic Algorithm for Feature Selection in a Protein Function Prediction Context. , 2018, , .		6
26	Causality relationship among attributes applied in an educational data set. , 2019, , .		6
27	An Artificial Neural Network Approach for Mechanisms of Call Admission Control in UMTS 3G Networks. , 2008, , .		5
28	Hybrid structure based on previous knowledge and GA to search the ideal neurons quantity for the hidden layer of MLP”Application in the cold rolling process. Applied Soft Computing Journal, 2011, 11, 2460-2471.	7.2	5
29	Sphere-M: An ontology capture method. , 2012, , .		5
30	Characterization of time series for analyzing of the evolution of time series clusters. Expert Systems With Applications, 2015, 42, 596-611.	7.6	5
31	Transductive learning as an alternative to translation initiation site identification. BMC Bioinformatics, 2017, 18, 81.	2.6	5
32	A new local causal learning algorithm applied in learning analytics. International Journal of Information and Learning Technology, 2020, 38, 103-115.	2.3	5
33	Formal Concept Analysis Applied to Professional Social Networks Analysis. , 2017, , .		5
34	Using the nextclosure algorithm to extract rules from trained neural networks - application in solar energy systems. , 0, , .		4
35	Techniques for Missing Value Recovering in Imbalanced Databases: Application in a Marketing Database with Massive Missing Data. , 2006, , .		4
36	The usage of Artificial Neural Networks in the classification and forecast of potable water consumption. , 2009, , .		4

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37	Classifying longevity profiles through longitudinal data mining. Expert Systems With Applications, 2019, 117, 75-89.	7.6	4
38	Exploring Clause Symmetry in a Distributed Bounded Model Checking Algorithm. , 2007, , .		3
39	Fuzzy Sliding Mode Controller for a PH Process in Stirred Tanks. Intelligent Automation and Soft Computing, 2012, 18, 349-367.	2.1	3
40	Extracting reducible knowledge from ANN with JBOS and FCANN approaches. Expert Systems With Applications, 2013, 40, 3087-3095.	7.6	3
41	Data mining in the reduction of the number of places of experiments for plant cultivates. Computers and Electronics in Agriculture, 2015, 113, 136-147.	7.7	3
42	Identification of substructures in complex networks using formal concept analysis. International Journal of Web Information Systems, 2018, 14, 281-298.	2.4	3
43	Extraction of qualitative behavior rules for industrial processes from reduced concept lattice. Intelligent Data Analysis, 2020, 24, 643-663.	0.9	3
44	Neural Representation of a Solar Collector with Statistical Optimization of the Training Set. Lecture Notes in Computer Science, 2004, , 87-96.	1.3	3
45	Adaptation of FCANN Method to Extract and Represent Comprehensible Knowledge from Neural Networks. Studies in Computational Intelligence, 2008, , 163-172.	0.9	3
46	A model for the simulation of a cold rolling mill, using neural networks and sensitivity factors. , 0, , .		2
47	Predictive model for the cold rolling process through sensitivity factors via neural networks. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2006, 28, 111.	1.6	2
48	Parametric Analysis of Solar Collectors Through Sensitivity Factors Via Artificial Neural Networks. , 2006, , .		2
49	A symbolic model checking approach to verifying transact-SQL. , 2012, , .		2
50	Using Iceberg Concept Lattices and Implications Rules to Extract Knowledge from Ann. Intelligent Automation and Soft Computing, 2013, 19, 361-372.	2.1	2
51	Canonical Computational Models Based on Formal Concept Analysis for Social Network Analysis and Representation. , 2015, , .		2
52	A Fast Parallel K-Modes Algorithm for Clustering Nucleotide Sequences to Predict Translation Initiation Sites. Journal of Computational Biology, 2019, 26, 442-456.	1.6	2
53	OrgBR-M: a method to assist in organizing bibliographic material based on formal concept analysisâ€”a case study in educational data mining. International Journal on Digital Libraries, 2020, 21, 423-448.	1.5	2
54	Using implications from FCA to represent a two mode network data. , 2015, , .		2

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55	Representação e controle de laminadores tandem baseado em funções de sensibilidade obtidos através de redes neurais. Controle and Automacao, 2003, 14, 103-113.	0.2	2
56	FCANN: An Approach to Knowledge Representation From ANN Through Formal Concept Analysis - Application in the Cold Rolling Process. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	1
57	Climatic data neural representation for large territorial extensions: Case study for the State of Minas Gerais. , 2009, , .		1
58	Distributed BMC: A Depth-First Approach to Explore Clause Symmetry. , 2009, , .		1
59	Minimal Cover of Implication Rules to Represent Two Mode Networks. , 2015, , .		1
60	Dynamic Fuzzy Cellular Admission Control. IEEE Latin America Transactions, 2015, 13, 510-515.	1.6	1
61	Persuasion strategies in mobile systems. , 2017, , .		1
62	Minimal implications base for social network analysis. International Journal of Web Information Systems, 2018, 14, 62-77.	2.4	1
63	ImplicPBDD: A New Approach to Extract Proper Implications Set from High-Dimension Formal Contexts Using a Binary Decision Diagram. Information (Switzerland), 2018, 9, 266.	2.9	1
64	Professional Competence Identification Through Formal Concept Analysis. Lecture Notes in Business Information Processing, 2018, , 34-56.	1.0	1
65	Improving the quality of enzyme prediction by using feature selection and dimensionality reduction. , 2019, , .		1
66	Time Series Analysis Using Synthetic Data for Monitoring the Temporal Behavior of Sensor Signals. , 2019, , .		1
67	Exploring Different Paradigms to Extract Proper Implications From High Dimensional Formal Contexts. IEEE Access, 2020, 8, 134161-134175.	4.2	1
68	Applying Causal Inference in Educational Data Mining: A Pilot Study. , 2018, , .		1
69	An Approach to Extract Proper Implications Set from High-dimension Formal Contexts using Binary Decision Diagram. , 2018, , .		1
70	Manipulating Triadic Concept Analysis Contexts through Binary Decision Diagrams. , 2019, , .		1
71	Applying binary decision diagram to extract concepts from triadic formal context. , 2020, , .		1
72	Analysis and Prediction of Childhood Pneumonia Deaths using Machine Learning Algorithms. , 0, , .		1

#	ARTICLE	IF	CITATIONS
73	Reduction of the entries number of the training set for ANN through formal concept analysis and its application to solar energy systems. , 0, , .		0
74	A predictive thickness control structure and decision about the better control parameter for the cold rolling process through sensitivity factors via neural networks. , 0, , .		0
75	FCANN: An Approach to Knowledge Representation From ANN Through FCA Effects of Synthetic Data Base and Discretization Process, Application in the Cold Rolling Process. , 2006, , .		0
76	FCANN Method Applications for Knowledge Extraction From Previously Trained ANN. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	0
77	Neural Networks Applied to Adjustment and Combination of the Control Actions for the Cold Rolling Process. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	0
78	Optimization of the neural structure based on domain expert previous knowledge via GA and sensitivity factors. , 2008, , .		0
79	SolarEnergy: A framework for solar energy applications. , 2008, , .		0
80	A representative validation of a neural 3G admission control through rules extraction. , 2009, , .		0
81	Neural models to insert climatic information in thermal model of swimming pools &#x2014; simulation for different climate conditions and profile of human activity. , 2010, , .		0
82	SolarEnergy: A framework for photovoltaic systems - A case study. , 2010, , .		0
83	Applying neural networks to determine the socio-environmental factors responsible for potable water consumption. , 2010, , .		0
84	Prediction of protein translation initiation site from the perspective of imbalanced classes. , 2011, , .		0
85	GCA: An algorithm based on the gower similarity for clustering of categorical variables. , 2012, , .		0
86	Dynamic fuzzy cellular admission control. , 2013, , .		0
87	Applying Formal Concept Analysis to assist class hierarchy construction in biomedical systems. , 2013, , .		0
88	TCSVM - A Cascade Approach with Transductive Inference to Predicting Protein Translation Initiation Site. , 2018, , .		0
89	Evaluation of inductive and transductive inference in the context of translation initiation site. , 2018, , .		0
90	Feature selection with genetic algorithm for protein function prediction. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
91	A Hybrid Approach to Solve SAT and UNSAT Problems. IEEE Latin America Transactions, 2020, 18, 722-728.	1.6	0
92	Extraction of Conservative Rules for Translation Initiation Site Prediction using Formal Concept Analysis. , 2017, , .		0
93	Rule Induction Algorithms Applied in Educational Data Set. , 2019, , .		0
94	An FCA-based Approach to Direct Edges in a Causal Bayesian Network: A Pilot Study using a Surgery Data Set. , 2020, , .		0
95	Characterization of long-lived and non-long lived profiles through biclustering. , 2020, , .		0
96	Selection of Representative Instances using Ant Colony: A Case Study in a Database of Children and Adolescents with Attention-Deficit/Hyperactivity Disorder. , 2022, , .		0
97	Interpreting the Human Longevity Profile Through Triadic Rules â€” A Case Study Based on the ELSA-UK Longitudinal Study. Studies in Health Technology and Informatics, 2022, , .	0.3	0
98	Applying Formal Concept Analysis for the Recognition of Infant Mortality Patterns. Studies in Health Technology and Informatics, 2022, , .	0.3	0