

Jose Maria Luna

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

1,086
citations

19
h-index

32
g-index

72
ext. papers

1,328
ext. citations

4.3
avg, IF

4.92
L-index

#	Paper	IF	Citations
65	Predicting students' final performance from participation in on-line discussion forums. <i>Computers and Education</i> , 2013 , 68, 458-472	9.5	285
64	Design and behavior study of a grammar-guided genetic programming algorithm for mining association rules. <i>Knowledge and Information Systems</i> , 2012 , 32, 53-76	2.4	58
63	Frequent itemset mining: A 25 years review. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2019 , 9, e1329	6.9	54
62	An evolutionary algorithm for the discovery of rare class association rules in learning management systems. <i>Applied Intelligence</i> , 2015 , 42, 501-513	4.9	44
61	Association rule mining using genetic programming to provide feedback to instructors from multiple-choice quiz data. <i>Expert Systems</i> , 2013 , 30, 162-172	2.1	43
60	Pattern Mining with Evolutionary Algorithms 2016 ,		40
59	High performance evaluation of evolutionary-mined association rules on GPUs. <i>Journal of Supercomputing</i> , 2013 , 66, 1438-1461	2.5	40
58	Reducing gaps in quantitative association rules: A genetic programming free-parameter algorithm. <i>Integrated Computer-Aided Engineering</i> , 2014 , 21, 321-337	5.2	37
57	On the use of genetic programming for mining comprehensible rules in subgroup discovery. <i>IEEE Transactions on Cybernetics</i> , 2014 , 44, 2329-41	10.2	36
56	Apriori Versions Based on MapReduce for Mining Frequent Patterns on Big Data. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 2851-2865	10.2	35
55	MDM tool: A data mining framework integrated into Moodle. <i>Computer Applications in Engineering Education</i> , 2017 , 25, 90-102	1.6	30
54	LAIM discretization for multi-label data. <i>Information Sciences</i> , 2016 , 330, 370-384	7.7	28
53	Speeding-Up Association Rule Mining With Inverted Index Compression. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 3059-3072	10.2	26
52	On the adaptability of G3PARAM to the extraction of rare association rules. <i>Knowledge and Information Systems</i> , 2014 , 38, 391-418	2.4	26
51	Mining association rules on Big Data through MapReduce genetic programming. <i>Integrated Computer-Aided Engineering</i> , 2017 , 25, 31-48	5.2	25
50	Grammar-based multi-objective algorithms for mining association rules. <i>Data and Knowledge Engineering</i> , 2013 , 86, 19-37	1.5	23
49	RM-Tool: A framework for discovering and evaluating association rules. <i>Advances in Engineering Software</i> , 2011 , 42, 566-576	3.6	20

48	Supervised Descriptive Pattern Mining 2018 ,		20
47	Mining association rules with single and multi-objective grammar guided ant programming. <i>Integrated Computer-Aided Engineering</i> , 2013 , 20, 217-234	5.2	19
46	Mining Context-Aware Association Rules Using Grammar-Based Genetic Programming. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 3030-3044	10.2	18
45	Mining exceptional relationships with grammar-guided genetic programming. <i>Knowledge and Information Systems</i> , 2016 , 47, 571-594	2.4	15
44	Recommending degree studies according to students' attitudes in high school by means of subgroup discovery. <i>International Journal of Computational Intelligence Systems</i> , 2016 , 9, 1101-1117	3.4	14
43	Optimization of quality measures in association rule mining: an empirical study. <i>International Journal of Computational Intelligence Systems</i> , 2018 , 12, 59	3.4	14
42	Evaluation and comparison of open source software suites for data mining and knowledge discovery. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2017 , 7, e1204	6.9	12
41	An advanced review on text mining in medicine. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2019 , 9, e1302	6.9	11
40	Discovering useful patterns from multiple instance data. <i>Information Sciences</i> , 2016 , 357, 23-38	7.7	11
39	A Grammar-Guided Genetic Programming Algorithm for Associative Classification in Big Data. <i>Cognitive Computation</i> , 2019 , 11, 331-346	4.4	10
38	Association rule mining using a multi-objective grammar-based ant programming algorithm 2011 ,		8
37	LAC: Library for associative classification. <i>Knowledge-Based Systems</i> , 2020 , 193, 105432	7.3	8
36	Evaluating associative classification algorithms for Big Data. <i>Big Data Analytics</i> , 2019 , 4,	2.9	7
35	A Data Structure to Speed-Up Machine Learning Algorithms on Massive Datasets. <i>Lecture Notes in Computer Science</i> , 2016 , 365-376	0.9	7
34	G3PARAM: A Grammar Guided Genetic Programming algorithm for mining association rules 2010 ,		7
33	Exhaustive search algorithms to mine subgroups on Big Data using Apache Spark. <i>Progress in Artificial Intelligence</i> , 2017 , 6, 145-158	4	5
32	Pattern mining: current status and emerging topics. <i>Progress in Artificial Intelligence</i> , 2016 , 5, 165-170	4	5
31	Subgroup discovery in MOOCs: a big data application for describing different types of learners. <i>Interactive Learning Environments</i> , 2019 , 1-19	3.1	5

30	An evolutionary algorithm for mining rare association rules: A Big Data approach 2017 ,		5
29	Discovering Subgroups by Means of Genetic Programming. <i>Lecture Notes in Computer Science</i> , 2013 , 121-132		5
28	Discovering clues to avoid middle school failure at early stages 2015 ,		4
27	Extracting User-Centric Knowledge on Two Different Spaces: Concepts and Records. <i>IEEE Access</i> , 2020 , 8, 134782-134799	3.5	4
26	An intruder detection approach based on infrequent rating pattern mining 2010 ,		3
25	Genetic Programming for Mining Association Rules in Relational Database Environments 2015 , 431-450		3
24	An Automatic Programming ACO-Based Algorithm for Classification Rule Mining. <i>Advances in Intelligent and Soft Computing</i> , 2010 , 649-656		2
23	Analysis of the Effectiveness of G3PARM Algorithm. <i>Lecture Notes in Computer Science</i> , 2010 , 27-34	0.9	2
22	Subgroup discovery on big data: Pruning the search space on exhaustive search algorithms 2016 ,		2
21	Introduction to Supervised Descriptive Pattern Mining 2018 , 1-31		2
20	Course Recommendation based on Sequences: An Evolutionary Search of Emerging Sequential Patterns. <i>Cognitive Computation</i> , 1	4.4	2
19	Quality Measures in Pattern Mining 2016 , 27-44		1
18	Supervised Local Pattern Mining 2016 , 141-161		1
17	Scalability in Pattern Mining 2016 , 177-190		1
16	Multiobjective Approaches in Pattern Mining 2016 , 119-139		1
15	Exceptional in so Many Ways Discovering Descriptors That Display Exceptional Behavior on Contrasting Scenarios. <i>IEEE Access</i> , 2020 , 8, 200982-200994	3.5	1
14	Genetic Programming in Pattern Mining 2016 , 87-117		0
13	Classification Accuracy of Hepatitis C Virus Infection Outcome: Data Mining Approach. <i>Journal of Medical Internet Research</i> , 2021 , 23, e18766	7.6	0

- 12 Introduction to Pattern Mining **2016**, 1-26
- 11 Mining Exceptional Relationships Between Patterns **2016**, 163-176
- 10 Introduction to Evolutionary Computation **2016**, 45-61
- 9 Discovering Frequent Patterns in Very Large Transactional Databases **2021**, 23-40
- 8 Subgroup Discovery **2018**, 71-98
- 7 Successful Applications **2018**, 171-185
- 6 Exceptional Models **2018**, 129-149
- 5 Introduction to Data Mining **2021**, 1-22
- 4 Mining Perfectly Rare Itemsets on Big Data: An Approach Based on Apriori-Inverse and MapReduce.
Advances in Intelligent Systems and Computing, **2017**, 508-518 0.4
- 3 JCLEC Meets WEKA!. *Lecture Notes in Computer Science*, **2011**, 388-395 0.9
- 2 Class Association Rules **2018**, 99-128
- 1 Other Forms of Supervised Descriptive Pattern Mining **2018**, 151-170