

# Jose Maria Luna

## List of Publications by Year in Descending Order

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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	Discovering Frequent Patterns in Very Large Transactional Databases <b>2021</b> , 23-40		
64	Introduction to Data Mining <b>2021</b> , 1-22		
63	Classification Accuracy of Hepatitis C Virus Infection Outcome: Data Mining Approach. <i>Journal of Medical Internet Research</i> , <b>2021</b> , 23, e18766	7.6	0
62	LAC: Library for associative classification. <i>Knowledge-Based Systems</i> , <b>2020</b> , 193, 105432	7.3	8
61	Extracting User-Centric Knowledge on Two Different Spaces: Concepts and Records. <i>IEEE Access</i> , <b>2020</b> , 8, 134782-134799	3.5	4
60	Exceptional in so Many Ways Discovering Descriptors That Display Exceptional Behavior on Contrasting Scenarios. <i>IEEE Access</i> , <b>2020</b> , 8, 200982-200994	3.5	1
59	An advanced review on text mining in medicine. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , <b>2019</b> , 9, e1302	6.9	11
58	A Grammar-Guided Genetic Programming Algorithm for Associative Classification in Big Data. <i>Cognitive Computation</i> , <b>2019</b> , 11, 331-346	4.4	10
57	Evaluating associative classification algorithms for Big Data. <i>Big Data Analytics</i> , <b>2019</b> , 4,	2.9	7
56	Subgroup discovery in MOOCs: a big data application for describing different types of learners. <i>Interactive Learning Environments</i> , <b>2019</b> , 1-19	3.1	5
55	Frequent itemset mining: A 25 years review. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , <b>2019</b> , 9, e1329	6.9	54
54	Mining Context-Aware Association Rules Using Grammar-Based Genetic Programming. <i>IEEE Transactions on Cybernetics</i> , <b>2018</b> , 48, 3030-3044	10.2	18
53	Apriori Versions Based on MapReduce for Mining Frequent Patterns on Big Data. <i>IEEE Transactions on Cybernetics</i> , <b>2018</b> , 48, 2851-2865	10.2	35
52	Optimization of quality measures in association rule mining: an empirical study. <i>International Journal of Computational Intelligence Systems</i> , <b>2018</b> , 12, 59	3.4	14
51	Subgroup Discovery <b>2018</b> , 71-98		
50	Successful Applications <b>2018</b> , 171-185		
49	Exceptional Models <b>2018</b> , 129-149		

48	Supervised Descriptive Pattern Mining <b>2018</b> ,		20
47	Class Association Rules <b>2018</b> , 99-128		
46	Introduction to Supervised Descriptive Pattern Mining <b>2018</b> , 1-31		2
45	Other Forms of Supervised Descriptive Pattern Mining <b>2018</b> , 151-170		
44	MDM tool: A data mining framework integrated into Moodle. <i>Computer Applications in Engineering Education</i> , <b>2017</b> , 25, 90-102	1.6	30
43	Exhaustive search algorithms to mine subgroups on Big Data using Apache Spark. <i>Progress in Artificial Intelligence</i> , <b>2017</b> , 6, 145-158	4	5
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> , <b>2017</b> , 7, e1204	6.9	12
41	Mining association rules on Big Data through MapReduce genetic programming. <i>Integrated Computer-Aided Engineering</i> , <b>2017</b> , 25, 31-48	5.2	25
40	An evolutionary algorithm for mining rare association rules: A Big Data approach <b>2017</b> ,		5
39	Mining Perfectly Rare Itemsets on Big Data: An Approach Based on Apriori-Inverse and MapReduce. <i>Advances in Intelligent Systems and Computing</i> , <b>2017</b> , 508-518	0.4	
38	Recommending degree studies according to students' attitudes in high school by means of subgroup discovery. <i>International Journal of Computational Intelligence Systems</i> , <b>2016</b> , 9, 1101-1117	3.4	14
37	A Data Structure to Speed-Up Machine Learning Algorithms on Massive Datasets. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 365-376	0.9	7
36	Introduction to Pattern Mining <b>2016</b> , 1-26		
35	Quality Measures in Pattern Mining <b>2016</b> , 27-44		1
34	Supervised Local Pattern Mining <b>2016</b> , 141-161		1
33	Mining Exceptional Relationships Between Patterns <b>2016</b> , 163-176		
32	Scalability in Pattern Mining <b>2016</b> , 177-190		1
31	Introduction to Evolutionary Computation <b>2016</b> , 45-61		

30	Multiobjective Approaches in Pattern Mining <b>2016</b> , 119-139		1
29	Discovering useful patterns from multiple instance data. <i>Information Sciences</i> , <b>2016</b> , 357, 23-38	7.7	11
28	Pattern Mining with Evolutionary Algorithms <b>2016</b> ,		40
27	LAIM discretization for multi-label data. <i>Information Sciences</i> , <b>2016</b> , 330, 370-384	7.7	28
26	Speeding-Up Association Rule Mining With Inverted Index Compression. <i>IEEE Transactions on Cybernetics</i> , <b>2016</b> , 46, 3059-3072	10.2	26
25	Pattern mining: current status and emerging topics. <i>Progress in Artificial Intelligence</i> , <b>2016</b> , 5, 165-170	4	5
24	Genetic Programming in Pattern Mining <b>2016</b> , 87-117		0
23	Subgroup discovery on big data: Pruning the search space on exhaustive search algorithms <b>2016</b> ,		2
22	Mining exceptional relationships with grammar-guided genetic programming. <i>Knowledge and Information Systems</i> , <b>2016</b> , 47, 571-594	2.4	15
21	Discovering clues to avoid middle school failure at early stages <b>2015</b> ,		4
20	An evolutionary algorithm for the discovery of rare class association rules in learning management systems. <i>Applied Intelligence</i> , <b>2015</b> , 42, 501-513	4.9	44
19	Genetic Programming for Mining Association Rules in Relational Database Environments <b>2015</b> , 431-450		3
18	On the use of genetic programming for mining comprehensible rules in subgroup discovery. <i>IEEE Transactions on Cybernetics</i> , <b>2014</b> , 44, 2329-41	10.2	36
17	Reducing gaps in quantitative association rules: A genetic programming free-parameter algorithm. <i>Integrated Computer-Aided Engineering</i> , <b>2014</b> , 21, 321-337	5.2	37
16	On the adaptability of G3PARM to the extraction of rare association rules. <i>Knowledge and Information Systems</i> , <b>2014</b> , 38, 391-418	2.4	26
15	Association rule mining using genetic programming to provide feedback to instructors from multiple-choice quiz data. <i>Expert Systems</i> , <b>2013</b> , 30, 162-172	2.1	43
14	Predicting students' final performance from participation in on-line discussion forums. <i>Computers and Education</i> , <b>2013</b> , 68, 458-472	9.5	285
13	Grammar-based multi-objective algorithms for mining association rules. <i>Data and Knowledge Engineering</i> , <b>2013</b> , 86, 19-37	1.5	23

12	High performance evaluation of evolutionary-mined association rules on GPUs. <i>Journal of Supercomputing</i> , <b>2013</b> , 66, 1438-1461	2.5	40
11	Mining association rules with single and multi-objective grammar guided ant programming. <i>Integrated Computer-Aided Engineering</i> , <b>2013</b> , 20, 217-234	5.2	19
10	Discovering Subgroups by Means of Genetic Programming. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 1216-132	1.32	5
9	Design and behavior study of a grammar-guided genetic programming algorithm for mining association rules. <i>Knowledge and Information Systems</i> , <b>2012</b> , 32, 53-76	2.4	58
8	Association rule mining using a multi-objective grammar-based ant programming algorithm <b>2011</b> ,		8
7	RM-Tool: A framework for discovering and evaluating association rules. <i>Advances in Engineering Software</i> , <b>2011</b> , 42, 566-576	3.6	20
6	JCLEC Meets WEKA!. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 388-395	0.9	
5	G3PARAM: A Grammar Guided Genetic Programming algorithm for mining association rules <b>2010</b> ,		7
4	An intruder detection approach based on infrequent rating pattern mining <b>2010</b> ,		3
3	An Automatic Programming ACO-Based Algorithm for Classification Rule Mining. <i>Advances in Intelligent and Soft Computing</i> , <b>2010</b> , 649-656		2
2	Analysis of the Effectiveness of G3PARAM Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 27-34	0.9	2
1	Course Recommendation based on Sequences: An Evolutionary Search of Emerging Sequential Patterns. <i>Cognitive Computation</i> , <b>1</b>	4.4	2