Tias Guns

List of Publications by Year
in descending order

48 papers	**751** citations

759233

12 h-index	

677142

22 g-index	

50 all docs	**50** docs citations
50 times ranked	**438** citing authors

#	ARTICLE	IF	CITATIONS
1	Itemset mining: A constraint programming perspective. Artificial Intelligence, 2011, 175, 1951-1983.	5.8	131
2	Constraint programming for itemset mining. , 2008, , .		80
3	k-Pattern Set Mining under Constraints. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 402-418.	5.7	56
4	Correlated itemset mining in ROC space. , 2009, , .		48
5	Smart Predict-and-Optimize for Hard Combinatorial Optimization Problems. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 1603-1610.	4.9	32
6	Learning constraints in spreadsheets and tabular data. Machine Learning, 2017, 106, 1441-1468.	5.4	26
7	Constraint-Based Sequence Mining Using Constraint Programming. Lecture Notes in Computer Science, 2015, , 288-305.	1.3	26
8	Constrained Clustering Using Column Generation. Lecture Notes in Computer Science, 2014, , 438-454.	1.3	24
9	Unveiling combinatorial regulation through the combination of ChIP information and in silico cis-regulatory module detection. Nucleic Acids Research, 2012, 40, e90-e90.	14.5	23
10	MiningZinc: A declarative framework for constraint-based mining. Artificial Intelligence, 2017, 244, 6-29.	5.8	22
11	Analyzing passenger and freight vehicle movements from automatic-Number plate recognition camera data. European Transport Research Review, 2020, 12, .	4.8	21
12	Monitoring Urban-Freight Transport Based on GPS Trajectories of Heavy-Goods Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3747-3758.	8.0	20
13	Using shared sell-through data to forecast wholesaler demand in multi-echelon supply chains. European Journal of Operational Research, 2021, 288, 466-479.	5.7	20
14	Dominance Programming for Itemset Mining. , 2013, , .		19
15	Cost-sensitive learning for profit-driven credit scoring. Journal of the Operational Research Society, 2022, 73, 338-350.	3.4	15
16	CoverSize: A Global Constraint for Frequency-Based Itemset Mining. Lecture Notes in Computer Science, 2017, , 529-546.	1.3	15
17	Mining Time-constrained Sequential Patterns with Constraint Programming. Constraints, 2017, 22, 548-570.	0.7	13
18	Machine learning methods for short-term probability of default: A comparison of classification, regression and ranking methods. Journal of the Operational Research Society, 0, , 1-16.	3.4	12

#	Article	IF	Citations
19	An Efficient Algorithm for Mining Frequent Sequence with Constraint Programming. Lecture Notes in Computer Science, 2016, , 315-330.	1.3	12
20	Learning to Rank for Uplift Modeling. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 4888-4904.	5.7	10
21	An Investigation into Prediction Â+ÂOptimisation for the Knapsack Problem. Lecture Notes in Computer Science, 2019, , 241-257.	1.3	9
22	Integrating Constraint Programming and Itemset Mining. Lecture Notes in Computer Science, 2010, , 467-482.	1.3	9
23	Evaluating Pattern Set Mining Strategies in a Constraint Programming Framework. Lecture Notes in Computer Science, 2011, , 382-394.	1.3	8
24	Constraint-Based Pattern Mining in Multi-relational Databases. , 2011, , .		7
25	Dynamic Programming for Predict+Optimise. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 1444-1451.	4.9	7
26	Learning Relational Representations with Auto-encoding Logic Programs. , 2019, , .		7
27	A framework for step-wise explaining how to solve constraint satisfaction problems. Artificial Intelligence, 2021, 300, 103550.	5.8	6
28	Learning Constraint Satisfaction Problems: An ILP Perspective. Lecture Notes in Computer Science, 2016, , 96-112.	1.3	6
29	Declarative Heuristic Search for Pattern Set Mining. , 2011, , .		5
30	The Inductive Constraint Programming Loop. IEEE Intelligent Systems, 2017, 32, 44-52.	4.0	5
31	Stochastic Constraint Programming with And-Or Branch-and-Bound. , 2017, , .		5
32	The MiningZinc Framework for Constraint-Based Itemset Mining. , 2013, , .		4
33	Introduction to the special issue on Combining Constraint Solving with Mining and Learning. Artificial Intelligence, 2017, 244, 1-5.	5.8	4
34	TaCLe. , 2017, , .		4
35	Generalizing Itemset Mining in a Constraint Programming Setting. , 2010, , 107-126.		4
36	Predict+Optimise with Ranking Objectives: Exhaustively Learning Linear Functions. , 2019, , .		4

#	Article	IF	Citations
37	Vehicle Routing by Learning from Historical Solutions. Lecture Notes in Computer Science, 2019, , 54-70.	1.3	4
38	Cis-regulatory module detection using constraint programming. , 2010, , .		3
39	Probability of default estimation, with a reject option. , 2020, , .		3
40	Declarative pattern mining using constraint programming. Constraints, 2015, 20, 492-493.	0.7	2
41	Finding Probabilistic Rule Lists using the Minimum Description Length Principle. Lecture Notes in Computer Science, 2018, , 66-82.	1.3	2
42	Contrastive Losses and Solution Caching for Predict-and-Optimize. , 2021, , .		2
43	The Inductive Constraint Programming Loop. Lecture Notes in Computer Science, 2016, , 303-309.	1.3	1
44	Mining Local Staircase Patterns in Noisy Data. , 2012, , .		0
45	Direct Mining of Subjectively Interesting Relational Patterns. , 2016, , .		0
46	Partition-Based Clustering Using Constraint Optimization. Lecture Notes in Computer Science, 2016, , 282-299.	1.3	0
47	Modeling in MiningZinc. Lecture Notes in Computer Science, 2016, , 257-281.	1.3	0
48	Hybrid Classification and Reasoning for Image-Based Constraint Solving. Lecture Notes in Computer Science, 2020, , 364-380.	1.3	0