Guido Sciavicco

List of Publications by Year
in descending order

84 papers	906 citations	686830 13 h-index	552369 26 g-index
86 all docs	86 docs citations	86 times ranked	470 citing authors

#	Article	IF	Citations
1	A Road Map of Interval Temporal Logics and Duration Calculi. Journal of Applied Non-Classical Logics, 2004, 14, 9-54.	0.4	110
2	Multi-objective evolutionary feature selection for online sales forecasting. Neurocomputing, 2017, 234, 75-92.	3.5	94
3	Propositional interval neighborhood logics: Expressiveness, decidability, and undecidable extensions. Annals of Pure and Applied Logic, 2009, 161, 289-304.	0.3	63
4	Multiobjective Evolutionary Feature Selection for Fuzzy Classification. IEEE Transactions on Fuzzy Systems, 2019, 27, 1085-1099.	6.5	58
5	A time series forecasting based multi-criteria methodology for air quality prediction. Applied Soft Computing Journal, 2021, 113, 107850.	4.1	37
6	Decidable and Undecidable Fragments of Halpern and Shoham's Interval Temporal Logic: Towards a Complete Classification. Lecture Notes in Computer Science, 2008, , 590-604.	1.0	32
7	An Optimal Decision Procedure for Right Propositional Neighborhood Logic. Journal of Automated Reasoning, 2007, 38, 173-199.	1.1	30
8	The dark side of interval temporal logic: marking the undecidability border. Annals of Mathematics and Artificial Intelligence, 2014, 71, 41-83.	0.9	27
9	A general tableau method for propositional interval temporal logics: Theory and implementation. Journal of Applied Logic, 2006, 4, 305-330.	1.1	26
10	Interval temporal logics over strongly discrete linear orders: Expressiveness and complexity. Theoretical Computer Science, 2014, 560, 269-291.	0.5	21
11	Spatial reasoning with rectangular cardinal relations. Annals of Mathematics and Artificial Intelligence, 2013, 67, 31-70.	0.9	17
12	Predicting the Risk of Academic Dropout With Temporal Multi-Objective Optimization. IEEE Transactions on Learning Technologies, 2019, 12, 225-236.	2.2	17
13	What's Decidable about Halpern and Shoham's Interval Logic? The Maximal Fragment ABBL. , 2011, , .		16
14	Decidability of Interval Temporal Logics over Split-Frames via Granularity. Lecture Notes in Computer Science, 2002, , 259-270.	1.0	15
15	On Decidability and Expressiveness of Propositional Interval Neighborhood Logics. Lecture Notes in Computer Science, 2007, , 84-99.	1.0	15
16	Metric propositional neighborhood logics on natural numbers. Software and Systems Modeling, 2013, 12, 245-264.	2.2	14
17	The light side of interval temporal logic: the Bernays-Schönfinkel fragment of CDT. Annals of Mathematics and Artificial Intelligence, 2014, 71, 11-39.	0.9	14
18	Attribute Selection Via Multi-Objective Evolutionary Computation Applied to Multi-Skill Contact Center Data Classification. , 2015, , .		14

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19	A Decidable Spatial Generalization of Metric Interval Temporal Logic. , 2010, , .		13
20	J48SS: A Novel Decision Tree Approach for the Handling of Sequential and Time Series Data. Computers, 2019, 8, 21.	2.1	13
21	A new modal logic for reasoning about space: spatial propositional neighborhood logic. Annals of Mathematics and Artificial Intelligence, 2007, 51, 1-25.	0.9	12
22	Horn Fragments of the Halpern-Shoham Interval Temporal Logic. ACM Transactions on Computational Logic, 2017, 18, 1-39.	0.7	12
23	Non-finite Axiomatizability and Undecidability of Interval Temporal Logics with C, D, and T. Lecture Notes in Computer Science, 2008, , 308-322.	1.0	11
24	The Dark Side of Interval Temporal Logic: Sharpening the Undecidability Border. , 2011, , .		10
25	ON BEGINS, MEETS AND BEFORE. International Journal of Foundations of Computer Science, 2012, 23, 559-583.	0.8	10
26	Unsupervised feature selection for interpretable classification in behavioral assessment of children. Expert Systems, 2017, 34, e12173.	2.9	10
27	Optimal Tableaux for Right Propositional Neighborhood Logic over Linear Orders. Lecture Notes in Computer Science, 2008, , 62-75.	1.0	10
28	A complete classification of the expressiveness of interval logics of Allen's relations: the general and the dense cases. Acta Informatica, 2016, 53, 207-246.	0.5	9
29	Sub-propositional Fragments of the Interval Temporal Logic of Allen's Relations. Lecture Notes in Computer Science, 2014, , 122-136.	1.0	9
30	Optimal Tableau Systems for Propositional Neighborhood Logic over All, Dense, and Discrete Linear Orders. Lecture Notes in Computer Science, 2011, , 73-87.	1.0	9
31	Undecidability of Interval Temporal Logics with the Overlap Modality. , 2009, , .		8
32	Two-sorted Point-Interval Temporal Logics. Electronic Notes in Theoretical Computer Science, 2011, 278, 31-45.	0.9	8
33	Interval Temporal Logics over Strongly Discrete Linear Orders: the Complete Picture. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 96, 155-168.	0.8	8
34	Optimal decision procedures for MPNL over finite structures, the natural numbers, and the integers. Theoretical Computer Science, 2013, 493, 98-115.	0.5	7
35	Multi-Objective Evolutionary Rule-Based Classification with Categorical Data. Entropy, 2018, 20, 684.	1.1	7
36	Interval Temporal Logic Decision Tree Learning. Lecture Notes in Computer Science, 2019, , 778-793.	1.0	7

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37	A General Tableau Method for Propositional Interval Temporal Logics. Lecture Notes in Computer Science, 2003, , 102-116.	1.0	7
38	On coarser interval temporal logics. Artificial Intelligence, 2019, 266, 1-26.	3.9	6
39	Decision Tree Pruning via Multi-Objective Evolutionary Computation. International Journal of Machine Learning and Computing, 2017, 7, 167-175.	0.8	6
40	Definability and decidability of binary predicates for time granularity. Journal of Applied Logic, 2006, 4, 168-191.	1.1	5
41	Right Propositional Neighborhood Logic over Natural Numbers with Integer Constraints for Interval Lengths. , 2009, , .		5
42	Undecidability of the Logic of Overlap Relation over Discrete Linear Orderings. Electronic Notes in Theoretical Computer Science, 2010, 262, 65-81.	0.9	5
43	Decidability and complexity of the fragments of the modal logic of Allen's relations over the rationals. Information and Computation, 2019, 266, 97-125.	0.5	5
44	Multiobjective evolutionary feature selection and fuzzy classification of contact centre data. Expert Systems, 2019, 36, e12375.	2.9	5
45	Feature and Language Selection in Temporal Symbolic Regression for Interpretable Air Quality Modelling. Algorithms, 2021, 14, 76.	1.2	5
46	On the Complexity of Fragments of the Modal Logic of Allen's Relations over Dense Structures. Lecture Notes in Computer Science, 2015, , 511-523.	1.0	5
47	A Complete Classification of the Expressiveness of Interval Logics of Allen's Relations over Dense Linear Orders. , 2013, , .		4
48	Assessing the Role of Temporal Information in Modelling Short-Term Air Pollution Effects Based on Traffic and Meteorological Conditions: A Case Study in WrocÅ,aw. Communications in Computer and Information Science, 2019, , 463-474.	0.4	4
49	J48S: A Sequence Classification Approach to Text Analysis Based on Decision Trees. Communications in Computer and Information Science, 2018, , 240-256.	0.4	4
50	On the Expressive Power of First Order-Logic Extended with Allen's Relations in the Strict Case. Lecture Notes in Computer Science, 2011, , 173-182.	1.0	4
51	Three-objective constrained evolutionary instance selection for classification: Wrapper and filter approaches. Engineering Applications of Artificial Intelligence, 2022, 107, 104531.	4.3	4
52	On the Complexity of Fragments of Horn Modal Logics. , 2016, , .		3
53	Lag Variables in Nitrogen Oxide Concentration Modelling: A Case Study in WrocÅ,aw, Poland. Atmosphere, 2020, 11, 1293.	1.0	3
54	Multi-Objective Evolutionary Simultaneous Feature Selection and Outlier Detection for Regression. IEEE Access, 2021, , 1-1.	2.6	3

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55	On the Expressiveness of the Interval Logic of Allenâ€™s Relations Over Finite and Discrete Linear Orders. Lecture Notes in Computer Science, 2014, , 267-281.	1.0	3
56	Quality Checking of Medical Guidelines Using Interval Temporal Logics: A Case-Study. Lecture Notes in Computer Science, 2009, , 158-167.	1.0	3
57	An Integrated First-Order Theory of Points and Intervals: Expressive Power in the Class of All Linear Orders. , 2012, , .		2
58	A Novel Decision Tree Approach for the Handling of Time Series. Lecture Notes in Computer Science, 2018, , 351-368.	1.0	2
59	Towards semi-automatic human performance evaluation: The case study of a contact center. Intelligent Data Analysis, 2018, 22, 867-880.	0.4	2
60	Towards a General Method for Logical Rule Extraction from Time Series. Lecture Notes in Computer Science, 2019, , 3-12.	1.0	2
61	A Tableau-Based System for Spatial Reasoning about Directional Relations. Lecture Notes in Computer Science, 2009, , 123-137.	1.0	2
62	A Tableau System for Right Propositional Neighborhood Logic over Finite Linear Orders: An Implementation. Lecture Notes in Computer Science, 2013, , 74-80.	1.0	2
63	Hybrid Metric Propositional Neighborhood Logics with Interval Length Binders. Electronic Notes in Theoretical Computer Science, 2011, 273, 3-19.	0.9	1
64	Finite satisfiability of propositional interval logic formulas with multi-objective evolutionary algorithms. , 2013, , .		1
65	Simple Versus Composed Temporal Lag Regression with Feature Selection, with an Application to Air Quality Modeling. , 2020, , .		1
66	An intelligent clustering method for devising the geochemical fingerprint of underground aquifers. Heliyon, 2021, 7, e07017.	1.4	1
67	Decision Tree Learning with Spatial Modal Logics. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 346, 273-290.	0.8	1
68	On Coarser Interval Temporal Logics and their Satisfiability Problem. Lecture Notes in Computer Science, 2015, , 105-115.	1.0	1
69	Reasoning with Time Intervals: A Logical and Computational Perspective. , 2012, 2012, 1-19.		1
70	On the Expressive Power of Sub-Propositional Fragments of Modal Logic. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 226, 91-104.	0.8	1
71	Branching interval algebra: An almost complete picture. Information and Computation, 2021, , 104809.	0.5	1
72	Temporal Aspects in Air Quality Modelingâ€"A Case Study in WrocÅ‚aw. Air, Soil and Water Research, 2020, 13, 117862212097582.	1.2	1

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73	Reasoning with 'And Then' and 'While'. , 2007, , .		0
74	The Light Side of Interval Temporal Logic: The Bernays-Schönfinkel's Fragment of CDT. , 2011, , .		0
75	Undecidability of Chop. , 2015, , .		0
76	Generalizing Allen's Theory of Time to Tree-Like Structures. , 2015, , .		0
77	Allen-like theory of time for tree-like structures. Information and Computation, 2018, 259, 375-389.	0.5	0
78	Lag Variables in Air Pollution Modeling Based on Traffic Flow and Meteorological Factors. Proceedings (mdpi), 2020, 51, .	0.2	0
79	Mining CSTNUDs Significant for a Set of Traces is Polynomial. Information and Computation, 2021, 281, 104773.	0.5	0
80	Begin, After, and Later: a Maximal Decidable Interval Temporal Logic. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 25, 72-88.	0.8	0
81	An Optimal Decision Procedure for MPNL over the Integers. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 54, 192-206.	0.8	0
82	Efficient Spatial Reasoning with Rectangular Cardinal Relations and Metric Constraints. Communications in Computer and Information Science, 2013, , 234-249.	0.4	0
83	Ultimately-periodic Interval Model Checking for Temporal Dataset Evaluation. , 0, , .		0
84	Fuzzy Halpern and Shoham's interval temporal logics. Fuzzy Sets and Systems, 2022, , .	1.6	0