

Davide Bresolin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8260239/publications.pdf>

Version: 2024-02-01

62
papers

793
citations

686830

13
h-index

610482

24
g-index

64
all docs

64
docs citations

64
times ranked

402
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Static and dynamic property-preserving updates. Information and Computation, 2021, 279, 104611. | 0.5 | 2 |
| 2 | A computable and compositional semantics for hybrid automata. , 2020, , . | | 5 |
| 3 | Rigorous Continuous Evolution of Uncertain Systems. Lecture Notes in Computer Science, 2019, , 60-75. | 1.0 | 0 |
| 4 | Minimizing Deterministic Timed Finite State Machines. IFAC-PapersOnLine, 2018, 51, 486-492. | 0.5 | 3 |
| 5 | Formal Verification of Medical CPS. ACM Transactions on Cyber-Physical Systems, 2018, 2, 1-29. | 1.9 | 3 |
| 6 | Horn Fragments of the Halpern-Shoham Interval Temporal Logic. ACM Transactions on Computational Logic, 2017, 18, 1-39. | 0.7 | 12 |
| 7 | Parametric formal verification: the robotic paint spraying case study. IFAC-PapersOnLine, 2017, 50, 9248-9253. | 0.5 | 8 |
| 8 | Ongoing Work on Automated Verification of Noisy Nonlinear Systems with Ariadne. Lecture Notes in Computer Science, 2017, , 313-319. | 1.0 | 1 |
| 9 | An Introduction to the Verification of Hybrid Systems Using Ariadne. Lecture Notes in Control and Information Sciences, 2015, , 339-346. | 0.6 | 1 |
| 10 | A Platform-Based Design Methodology With Contracts and Related Tools for the Design of Cyber-Physical Systems. Proceedings of the IEEE, 2015, 103, 2104-2132. | 16.4 | 114 |
| 11 | Formal verification of robotic surgery tasks by reachability analysis. Microprocessors and Microsystems, 2015, 39, 836-842. | 1.8 | 10 |
| 12 | Formal Verification Applied to Robotic Surgery. Lecture Notes in Control and Information Sciences, 2015, , 347-355. | 0.6 | 5 |
| 13 | 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 |
| 14 | Verification of Robotic Surgery Tasks by Reachability Analysis: A Comparison of Tools. , 2014, , . | | 1 |
| 15 | Assume-guarantee verification of nonlinear hybrid systems with Ariadne. International Journal of Robust and Nonlinear Control, 2014, 24, 699-724. | 2.1 | 44 |
| 16 | Interval temporal logics over strongly discrete linear orders: Expressiveness and complexity. Theoretical Computer Science, 2014, 560, 269-291. | 0.5 | 21 |
| 17 | The dark side of interval temporal logic: marking the undecidability border. Annals of Mathematics and Artificial Intelligence, 2014, 71, 41-83. | 0.9 | 27 |
| 18 | Application of contract-based verification techniques for hybrid automata to surgical robotic systems. , 2014, , . | | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | The light side of interval temporal logic: the Bernays-Schönfinkel fragment of CDT. <i>Annals of Mathematics and Artificial Intelligence</i> , 2014, 71, 11-39. | 0.9 | 14 |
| 20 | Sub-propositional Fragments of the Interval Temporal Logic of Allen's Relations. <i>Lecture Notes in Computer Science</i> , 2014, , 122-136. | 1.0 | 9 |
| 21 | A game-theoretic approach to fault diagnosis and identification of hybrid systems. <i>Theoretical Computer Science</i> , 2013, 493, 15-29. | 0.5 | 7 |
| 22 | Metric propositional neighborhood logics on natural numbers. <i>Software and Systems Modeling</i> , 2013, 12, 245-264. | 2.2 | 14 |
| 23 | A framework for fault diagnosis of hybrid systems based on predicate abstractions. , 2013, , . | | 1 |
| 24 | Optimal decision procedures for MPNL over finite structures, the natural numbers, and the integers. <i>Theoretical Computer Science</i> , 2013, 493, 98-115. | 0.5 | 7 |
| 25 | Finite satisfiability of propositional interval logic formulas with multi-objective evolutionary algorithms. , 2013, , . | | 1 |
| 26 | A Tableau System for Right Propositional Neighborhood Logic over Finite Linear Orders: An Implementation. <i>Lecture Notes in Computer Science</i> , 2013, , 74-80. | 1.0 | 2 |
| 27 | ON BEGINS, MEETS AND BEFORE. <i>International Journal of Foundations of Computer Science</i> , 2012, 23, 559-583. | 0.8 | 10 |
| 28 | Computing the Evolution of Hybrid Systems using Rigorous Function Calculus. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 284-290. | 0.4 | 16 |
| 29 | Open Problems in Verification and Refinement of Autonomous Robotic Systems. , 2012, , . | | 13 |
| 30 | Ariadne: Dominance Checking of Nonlinear Hybrid Automata Using Reachability Analysis. <i>Lecture Notes in Computer Science</i> , 2012, , 79-91. | 1.0 | 9 |
| 31 | The Light Side of Interval Temporal Logic: The Bernays-Schönfinkel's Fragment of CDT. , 2011, , . | | 0 |
| 32 | The Dark Side of Interval Temporal Logic: Sharpening the Undecidability Border. , 2011, , . | | 10 |
| 33 | Robotic Surgery. <i>IEEE Robotics and Automation Magazine</i> , 2011, 18, 24-32. | 2.2 | 41 |
| 34 | Correct-by-construction code generation from hybrid automata specification. , 2011, , . | | 5 |
| 35 | What's Decidable about Halpern and Shoham's Interval Logic? The Maximal Fragment ABBL. , 2011, , . | | 16 |
| 36 | Optimal Tableau Systems for Propositional Neighborhood Logic over All, Dense, and Discrete Linear Orders. <i>Lecture Notes in Computer Science</i> , 2011, , 73-87. | 1.0 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Undecidability of the Logic of Overlap Relation over Discrete Linear Orderings. <i>Electronic Notes in Theoretical Computer Science</i> , 2010, 262, 65-81. | 0.9 | 5 |
| 38 | Tableaux for Logics of Subinterval Structures over Dense Orderings. <i>Journal of Logic and Computation</i> , 2010, 20, 133-166. | 0.5 | 41 |
| 39 | A Decidable Spatial Generalization of Metric Interval Temporal Logic. , 2010, , . | | 13 |
| 40 | Right Propositional Neighborhood Logic over Natural Numbers with Integer Constraints for Interval Lengths. , 2009, , . | | 5 |
| 41 | A theory of ultimately periodic languages and automata with an application to time granularity. <i>Acta Informatica</i> , 2009, 46, 331-360. | 0.5 | 6 |
| 42 | Complete and Terminating Tableau for the Logic of Proper Subinterval Structures Over Dense Orderings. <i>Electronic Notes in Theoretical Computer Science</i> , 2009, 231, 131-151. | 0.9 | 1 |
| 43 | Propositional interval neighborhood logics: Expressiveness, decidability, and undecidable extensions. <i>Annals of Pure and Applied Logic</i> , 2009, 161, 289-304. | 0.3 | 63 |
| 44 | Undecidability of Interval Temporal Logics with the Overlap Modality. , 2009, , . | | 8 |
| 45 | The impact of EFSM composition on functional ATPG. , 2009, , . | | 2 |
| 46 | A Tableau-Based System for Spatial Reasoning about Directional Relations. <i>Lecture Notes in Computer Science</i> , 2009, , 123-137. | 1.0 | 2 |
| 47 | An optimal tableau for Right Propositional Neighborhood Logic over Trees. , 2008, , . | | 3 |
| 48 | Reachability computation for hybrid systems with Ariadne. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008, 41, 8960-8965. | 0.4 | 19 |
| 49 | Optimal Tableaux for Right Propositional Neighborhood Logic over Linear Orders. <i>Lecture Notes in Computer Science</i> , 2008, , 62-75. | 1.0 | 10 |
| 50 | Decidable and Undecidable Fragments of Halpern and Shoham's Interval Temporal Logic: Towards a Complete Classification. <i>Lecture Notes in Computer Science</i> , 2008, , 590-604. | 1.0 | 32 |
| 51 | An Optimal Decision Procedure for Right Propositional Neighborhood Logic. <i>Journal of Automated Reasoning</i> , 2007, 38, 173-199. | 1.1 | 30 |
| 52 | An Optimal Tableau-Based Decision Algorithm for Propositional Neighborhood Logic. , 2007, , 549-560. | | 21 |
| 53 | On Decidability and Expressiveness of Propositional Interval Neighborhood Logics. <i>Lecture Notes in Computer Science</i> , 2007, , 84-99. | 1.0 | 15 |
| 54 | Tableau Systems for Logics of Subinterval Structures over Dense Orderings. <i>Lecture Notes in Computer Science</i> , 2007, , 73-89. | 1.0 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Relational dual tableaux for interval temporal logics $\hat{\sim}$ Journal of Applied Non-Classical Logics, 2006, 16, 251-277. | 0.4 | 8 |
| 56 | Time Granularities and Ultimately Periodic Automata. Lecture Notes in Computer Science, 2004, , 513-525. | 1.0 | 7 |
| 57 | Improving HyLTL model checking of hybrid systems. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 119, 79-92. | 0.8 | 3 |
| 58 | HyLTL: a temporal logic for model checking hybrid systems. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 124, 73-84. | 0.8 | 10 |
| 59 | Deterministic Timed Finite State Machines: Equivalence Checking and Expressive Power. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 161, 203-216. | 0.8 | 16 |
| 60 | 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 |
| 61 | Begin, After, and Later: a Maximal Decidable Interval Temporal Logic. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 25, 72-88. | 0.8 | 0 |
| 62 | An Optimal Decision Procedure for MPNL over the Integers. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 54, 192-206. | 0.8 | 0 |