

Michele Loreti

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

1,342
citations

393982

19
h-index

454577

30
g-index

93
all docs

93
docs citations

93
times ranked

459
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Sibilla: A Tool for Reasoning about Collective Systems. Lecture Notes in Computer Science, 2022, , 92-98. | 1.0 | 3 |
| 2 | Provably correct implementation of the AbC calculus. Science of Computer Programming, 2021, 202, 102567. | 1.5 | 6 |
| 3 | How Adaptive and Reliable is Your Program?. Lecture Notes in Computer Science, 2021, , 60-79. | 1.0 | 1 |
| 4 | Online monitoring of spatio-temporal properties for imprecise signals. , 2021, , . | | 3 |
| 5 | The metric linear-time branching-time spectrum on nondeterministic probabilistic processes. Theoretical Computer Science, 2020, 813, 20-69. | 0.5 | 9 |
| 6 | Programming interactions in collective adaptive systems by relying on attribute-based communication. Science of Computer Programming, 2020, 192, 102428. | 1.5 | 27 |
| 7 | Fluid approximation of broadcasting systems. Theoretical Computer Science, 2020, 816, 221-248. | 0.5 | 2 |
| 8 | Measuring Adaptability and Reliability of Large Scale Systems. Lecture Notes in Computer Science, 2020, , 380-396. | 1.0 | 2 |
| 9 | Monitoring Spatio-Temporal Properties (Invited Tutorial). Lecture Notes in Computer Science, 2020, , 21-46. | 1.0 | 3 |
| 10 | A calculus for collective-adaptive systems and its behavioural theory. Information and Computation, 2019, 268, 104457. | 0.5 | 19 |
| 11 | ABEL - A Domain Specific Framework for Programming with Attribute-Based Communication. Lecture Notes in Computer Science, 2019, , 111-128. | 1.0 | 6 |
| 12 | Replicated Computations Results (RCR) Report for "Statistical Abstraction for Multi-scale Spatio-temporal Systems". ACM Transactions on Modeling and Computer Simulation, 2019, 29, 1-2. | 0.6 | 0 |
| 13 | Analysis of Spatio-temporal Properties of Stochastic Systems Using TSTL. ACM Transactions on Modeling and Computer Simulation, 2019, 29, 1-24. | 0.6 | 3 |
| 14 | Replicated Computations Results (RCR) Report for "Mesoscopic Modelling of Pedestrian Movement using C <code>arma</code> and its Tools". ACM Transactions on Modeling and Computer Simulation, 2018, 28, 1-3. | 0.6 | 3 |
| 15 | Guest Editorial for the Special Issue on FORMal methods for the quantitative Evaluation of Collective Adaptive SysTems (FORECAST). ACM Transactions on Modeling and Computer Simulation, 2018, 28, 1-4. | 0.6 | 2 |
| 16 | Spatio-temporal model checking of vehicular movement in public transport systems. International Journal on Software Tools for Technology Transfer, 2018, 20, 289-311. | 1.7 | 41 |
| 17 | A Distributed Coordination Infrastructure for Attribute-Based Interaction. Lecture Notes in Computer Science, 2018, , 1-20. | 1.0 | 6 |
| 18 | FlyFast: A Scalable Approach to Probabilistic Model-Checking Based on Mean-Field Approximation. Lecture Notes in Computer Science, 2017, , 254-275. | 1.0 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Monitoring mobile and spatially distributed cyber-physical systems. , 2017, , . | | 43 |
| 20 | Automatic verification of reliability requirements of spatio-temporal analysis using Three-Valued Spatio-Temporal Logic. , 2017, , . | | 2 |
| 21 | FlyFast: A Mean Field Model Checker. Lecture Notes in Computer Science, 2017, , 303-309. | 1.0 | 4 |
| 22 | jSSTL - A Tool to Monitor Spatio-Temporal Properties. , 2017, , . | | 6 |
| 23 | Context-aware wireless mobile autonomic computing and communications: research trends and emerging applications. IEEE Wireless Communications, 2016, 23, 86-92. | 6.6 | 26 |
| 24 | Modelling and Analysis of Collective Adaptive Systems with CARMA and its Tools. Lecture Notes in Computer Science, 2016, , 83-119. | 1.0 | 45 |
| 25 | Spatial Logic and Spatial Model Checking for Closure Spaces. Lecture Notes in Computer Science, 2016, , 156-201. | 1.0 | 15 |
| 26 | On the Power of Attribute-Based Communication. Lecture Notes in Computer Science, 2016, , 1-18. | 1.0 | 32 |
| 27 | CARMA Eclipse Plug-in: A Tool Supporting Design and Analysis of Collective Adaptive Systems. Lecture Notes in Computer Science, 2016, , 167-171. | 1.0 | 6 |
| 28 | Programming of CAS Systems by Relying on Attribute-Based Communication. Lecture Notes in Computer Science, 2016, , 539-553. | 1.0 | 19 |
| 29 | Revisiting bisimilarity and its modal logic for nondeterministic and probabilistic processes. Acta Informatica, 2015, 52, 61-106. | 0.5 | 11 |
| 30 | Monitoring and visualizing adaptation of autonomic systems at runtime. , 2015, , . | | 1 |
| 31 | CaSPiS: a calculus of sessions, pipelines and services. Mathematical Structures in Computer Science, 2015, 25, 666-709. | 0.5 | 8 |
| 32 | On-the-fly PCTL fast mean-field approximated model-checking for self-organising coordination. Science of Computer Programming, 2015, 110, 23-50. | 1.5 | 25 |
| 33 | A calculus for attribute-based communication. , 2015, , . | | 32 |
| 34 | The SCEL Language: Design, Implementation, Verification. Lecture Notes in Computer Science, 2015, , 3-71. | 1.0 | 48 |
| 35 | A Fixpoint-Based Calculus for Graph-Shaped Computational Fields. Lecture Notes in Computer Science, 2015, , 101-116. | 1.0 | 1 |
| 36 | On-the-fly Fluid Model Checking via Discrete Time Population Models. Lecture Notes in Computer Science, 2015, , 193-207. | 1.0 | 6 |

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|----|--|------|-----------|
| 37 | Qualitative and Quantitative Monitoring of Spatio-Temporal Properties. Lecture Notes in Computer Science, 2015, , 21-37. | 1.0 | 43 |
| 38 | Specification and Analysis of Open-Ended Systems with CARMA. Lecture Notes in Computer Science, 2015, , 95-116. | 1.0 | 6 |
| 39 | An Experimental Spatio-Temporal Model Checker. Lecture Notes in Computer Science, 2015, , 297-311. | 1.0 | 26 |
| 40 | Investigating Fluid-Flow Semantics of Asynchronous Tuple-Based Process Languages for Collective Adaptive Systems. Lecture Notes in Computer Science, 2015, , 19-34. | 1.0 | 2 |
| 41 | On StocS: A Stochastic Extension of SCEL. Lecture Notes in Computer Science, 2015, , 619-640. | 1.0 | 2 |
| 42 | Tools for Ensemble Design and Runtime. Lecture Notes in Computer Science, 2015, , 429-448. | 1.0 | 3 |
| 43 | A Formal Approach to Autonomic Systems Programming. ACM Transactions on Autonomous and Adaptive Systems, 2014, 9, 1-29. | 0.4 | 105 |
| 44 | On Programming and Policing Autonomic Computing Systems. Lecture Notes in Computer Science, 2014, , 164-183. | 1.0 | 6 |
| 45 | Data Verification for Collective Adaptive Systems: Spatial Model-Checking of Vehicle Location Data. , 2014, , . | | 15 |
| 46 | Relating strong behavioral equivalences for processes with nondeterminism and probabilities. Theoretical Computer Science, 2014, 546, 63-92. | 0.5 | 17 |
| 47 | On-the-fly Fast Mean-Field Model-Checking. Lecture Notes in Computer Science, 2014, , 297-314. | 1.0 | 16 |
| 48 | Group-by-Group Probabilistic Bisimilarities and Their Logical Characterizations. Lecture Notes in Computer Science, 2014, , 315-330. | 1.0 | 1 |
| 49 | Programming and Verifying Component Ensembles. Lecture Notes in Computer Science, 2014, , 69-83. | 1.0 | 13 |
| 50 | Specifying and Verifying Properties of Space. Lecture Notes in Computer Science, 2014, , 222-235. | 1.0 | 44 |
| 51 | A Language-Based Approach to Autonomic Computing. Lecture Notes in Computer Science, 2013, , 25-48. | 1.0 | 32 |
| 52 | A uniform framework for modeling nondeterministic, probabilistic, stochastic, or mixed processes and their behavioral equivalences. Information and Computation, 2013, 225, 29-82. | 0.5 | 28 |
| 53 | A uniform definition of stochastic process calculi. ACM Computing Surveys, 2013, 46, 1-35. | 16.1 | 36 |
| 54 | Modeling adaptation with a tuple-based coordination language. , 2012, , . | | 8 |

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|----|--|-----|-----------|
| 55 | Modeling adaptation with Klaim. ACM SIGAPP Applied Computing Review: A Publication of the Special Interest Group on Applied Computing, 2012, 12, 21-35. | 0.5 | 0 |
| 56 | Revisiting Trace and Testing Equivalences for Nondeterministic and Probabilistic Processes. Lecture Notes in Computer Science, 2012, , 195-209. | 1.0 | 5 |
| 57 | SoSL: A Service-Oriented Stochastic Logic. Lecture Notes in Computer Science, 2011, , 447-466. | 1.0 | 3 |
| 58 | Simulation and Analysis of Distributed Systems in Klaim. Lecture Notes in Computer Science, 2010, , 122-136. | 1.0 | 8 |
| 59 | MarCaSPiS: a Markovian Extension of a Calculus for Services. Electronic Notes in Theoretical Computer Science, 2009, 229, 11-26. | 0.9 | 15 |
| 60 | Provably Correct Implementations of Services. Lecture Notes in Computer Science, 2009, , 69-86. | 1.0 | 3 |
| 61 | Rate-Based Transition Systems for Stochastic Process Calculi. Lecture Notes in Computer Science, 2009, , 435-446. | 1.0 | 24 |
| 62 | On a Uniform Framework for the Definition of Stochastic Process Languages. Lecture Notes in Computer Science, 2009, , 9-25. | 1.0 | 7 |
| 63 | Multiple-Labelled Transition Systems for nominal calculi and their logics. Mathematical Structures in Computer Science, 2008, 18, 107-143. | 0.5 | 7 |
| 64 | Modelling global computations with $\langle \text{scp} \rangle \text{Klaim} \langle / \text{scp} \rangle$. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3737-3745. | 1.6 | 2 |
| 65 | Implementing Session Centered Calculi. Lecture Notes in Computer Science, 2008, , 17-32. | 1.0 | 14 |
| 66 | Sessions and Pipelines for Structured Service Programming. Lecture Notes in Computer Science, 2008, , 19-38. | 1.0 | 79 |
| 67 | Model checking mobile stochastic logic. Theoretical Computer Science, 2007, 382, 42-70. | 0.5 | 58 |
| 68 | Implementing a Distributed Mobile Calculus Using the IMC Framework. Electronic Notes in Theoretical Computer Science, 2007, 181, 63-79. | 0.9 | 2 |
| 69 | Multi Labelled Transition Systems: A Semantic Framework for Nominal Calculi. Electronic Notes in Theoretical Computer Science, 2007, 169, 133-146. | 0.9 | 2 |
| 70 | Assessing CS1 java skills. , 2006, , . | | 5 |
| 71 | MoMo: A Modal Logic for Reasoning About Mobility. Lecture Notes in Computer Science, 2005, , 95-119. | 1.0 | 5 |
| 72 | A modal logic for mobile agents. ACM Transactions on Computational Logic, 2004, 5, 79-128. | 0.7 | 26 |

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|----|--|-----|-----------|
| 73 | Formulae Meet Programs Over the Net: A Framework for Correct Network Aware Programming. Automated Software Engineering, 2004, 11, 245-288. | 2.2 | 2 |
| 74 | The Klaim Project: Theory and Practice. Lecture Notes in Computer Science, 2003, , 88-150. | 1.0 | 53 |
| 75 | Software update via mobile agent based programming. , 2002, , . | | 15 |
| 76 | An infrastructure language for open nets. , 2002, , . | | 16 |
| 77 | Hyperformulae, Parallel Deductions and Intersection Types. Electronic Notes in Theoretical Computer Science, 2001, 50, 178-195. | 0.9 | 8 |
| 78 | Modelling Node Connectivity in Dynamically Evolving Networks. Electronic Notes in Theoretical Computer Science, 2001, 54, 81-91. | 0.9 | 2 |
| 79 | Structured nets in KLAIM. , 2000, , . | | 7 |
| 80 | Revisiting Trace and Testing Equivalences for Nondeterministic and Probabilistic Processes. Logical Methods in Computer Science, 0, Volume 10, Issue 1, . | 0.4 | 14 |
| 81 | Model Checking Spatial Logics for Closure Spaces. Logical Methods in Computer Science, 0, Volume 12, Issue 4, . | 0.4 | 25 |
| 82 | Stochastically timed predicate-based communication primitives for autonomic computing. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 154, 1-16. | 0.8 | 14 |
| 83 | On-the-fly Probabilistic Model Checking. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 166, 45-59. | 0.8 | 3 |
| 84 | CARMA: Collective Adaptive Resource-sharing Markovian Agents. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 194, 16-31. | 0.8 | 30 |
| 85 | Uniform Labeled Transition Systems for Nondeterministic, Probabilistic, and Stochastic Process Calculi. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 60, 66-75. | 0.8 | 1 |
| 86 | The Spectrum of Strong Behavioral Equivalences for Nondeterministic and Probabilistic Processes. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 117, 81-96. | 0.8 | 2 |