

Jerome Feret

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,964
citations

430874

18
h-index

315739

38
g-index

54
all docs

54
docs citations

54
times ranked

932
citing authors

#	ARTICLE	IF	CITATIONS
1	A static analyzer for large safety-critical software. , 2003, , .		268
2	The ASTREÅ% Analyzer. Lecture Notes in Computer Science, 2005, , 21-30.	1.3	245
3	Internal coarse-graining of molecular systems. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6453-6458.	7.1	181
4	Rule-Based Modelling of Cellular Signalling. Lecture Notes in Computer Science, 2007, , 17-41.	1.3	153
5	Scalable Simulation of Cellular Signaling Networks. Lecture Notes in Computer Science, 2007, , 139-157.	1.3	119
6	Design and Implementation of a Special-Purpose Static Program Analyzer for Safety-Critical Real-Time Embedded Software. Lecture Notes in Computer Science, 2002, , 85-108.	1.3	115
7	Static Analysis of Digital Filters. Lecture Notes in Computer Science, 2004, , 33-48.	1.3	81
8	Why does AstrÅ%e scale up?. Formal Methods in System Design, 2009, 35, 229-264.	0.8	80
9	Abstracting the Differential Semantics of Rule-Based Models: Exact and Automated Model Reduction. , 2010, , .		53
10	Rule-Based Modelling, Symmetries, Refinements. , 2008, , 103-122.		51
11	Abstract Interpretation of Cellular Signalling Networks. Lecture Notes in Computer Science, 2008, , 83-97.	1.3	51
12	Combination of Abstractions in the ASTRÅ%E Static Analyzer. Lecture Notes in Computer Science, 2007, , 272-300.	1.3	47
13	Intrinsic information carriers in combinatorial dynamical systems. Chaos, 2010, 20, 037108.	2.5	45
14	Lumpability abstractions of rule-based systems. Theoretical Computer Science, 2012, 431, 137-164.	0.9	45
15	Combinatorial Complexity and Compositional Drift in Protein Interaction Networks. PLoS ONE, 2012, 7, e32032.	2.5	42
16	Static Analysis and Verification of Aerospace Software by Abstract Interpretation. , 2010, , .		39
17	Rule-Based Modelling and Model Perturbation. Lecture Notes in Computer Science, 2009, , 116-137.	1.3	38
18	Varieties of Static Analyzers: A Comparison with ASTREE. , 2007, , .		32

#	ARTICLE	IF	CITATIONS
19	Aboveground-Biomass Estimation of a Complex Tropical Forest in India Using Lidar. Remote Sensing, 2015, 7, 10607-10625.	4.0	24
20	Static analysis by abstract interpretation of embedded critical software. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2011, 36, 1-8.	0.7	21
21	Occurrence Counting Analysis for the λ -calculus. Electronic Notes in Theoretical Computer Science, 2000, 39, 1-18.	0.9	20
22	Abstract Interpretation-Based Static Analysis of Mobile Ambients. Lecture Notes in Computer Science, 2001, , 412-430.	1.3	20
23	Static Analysis and Verification of Aerospace Software by Abstract Interpretation. Foundations and Trends in Programming Languages, 2015, 2, 71-190.	1.8	19
24	The Arithmetic-Geometric Progression Abstract Domain. Lecture Notes in Computer Science, 2005, , 42-58.	1.3	19
25	Formal derivation of qualitative dynamical models from biochemical networks. BioSystems, 2016, 149, 70-112.	2.0	16
26	Confidentiality Analysis of Mobile Systems. Lecture Notes in Computer Science, 2000, , 135-154.	1.3	16
27	Abstract interpretation of mobile systems. The Journal of Logic and Algebraic Programming, 2005, 63, 59-130.	1.4	14
28	Combining Model Reductions. Electronic Notes in Theoretical Computer Science, 2010, 265, 73-96.	0.9	12
29	Formal Reduction for Rule-based Models. Electronic Notes in Theoretical Computer Science, 2011, 276, 29-59.	0.9	12
30	Dependency Analysis of Mobile Systems. Lecture Notes in Computer Science, 2002, , 314-329.	1.3	11
31	Reconstructing species-based dynamics from reduced stochastic rule-based models. , 2012, , .		8
32	KaDE: A Tool to Compile Kappa Rules into (Reduced) ODE Models. Lecture Notes in Computer Science, 2017, , 291-299.	1.3	7
33	An Algebraic Approach for Inferring and Using Symmetries in Rule-based Models. Electronic Notes in Theoretical Computer Science, 2015, 316, 45-65.	0.9	6
34	Reachability Analysis via Orthogonal Sets of Patterns. Electronic Notes in Theoretical Computer Science, 2018, 335, 27-48.	0.9	6
35	Reachability Analysis of Biological Signalling Pathways by Abstract Interpretation. AIP Conference Proceedings, 2007, , .	0.4	5
36	KaSa: A Static Analyzer for Kappa. Lecture Notes in Computer Science, 2018, , 285-291.	1.3	5

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37	Fragments-based Model Reduction: Some Case Studies. <i>Electronic Notes in Theoretical Computer Science</i> , 2010, 268, 77-96.	0.9	4
38	Local Traces: An Over-Approximation of the Behaviour of the Proteins in Rule-Based Models. <i>Lecture Notes in Computer Science</i> , 2016, , 116-131.	1.3	2
39	Local Traces: An Over-Approximation of the Behavior of the Proteins in Rule-Based Models. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2018, 15, 1124-1137.	3.0	2
40	Tropical Abstraction of Biochemical Reaction Networks with Guarantees. <i>Electronic Notes in Theoretical Computer Science</i> , 2020, 350, 3-32.	0.9	2
41	Lumpability Abstractions of Rule-based Systems. <i>Electronic Proceedings in Theoretical Computer Science</i> , EPTCS, 0, 40, 142-161.	0.8	2
42	Derivation of Qualitative Dynamical Models from Biochemical Networks. <i>Lecture Notes in Computer Science</i> , 2015, , 195-207.	1.3	2
43	Counters in Kappa: Semantics, Simulation, and Static Analysis. <i>Lecture Notes in Computer Science</i> , 2019, , 176-204.	1.3	2
44	Sharing Ghost Variables in a Collection of Abstract Domains. <i>Lecture Notes in Computer Science</i> , 2020, , 158-179.	1.3	2
45	Integrative Models for TGF- β 2 Signaling and Extracellular Matrix. <i>Biology of Extracellular Matrix</i> , 2020, , 209-225.	0.3	2
46	Investigation of a Biological Repair Scheme. <i>Lecture Notes in Computer Science</i> , 2009, , 1-12.	1.3	1
47	Proving the Absence of Unbounded Polymers in Rule-based Models. <i>Electronic Notes in Theoretical Computer Science</i> , 2020, 350, 33-56.	0.9	0
48	Formal Model Reduction. <i>Lecture Notes in Computer Science</i> , 2011, , 6-6.	1.3	0