

Jerome Feret

List of Publications by Year in descending order

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48
papers

1,964
citations

489802

18
h-index

355658

38
g-index

54
all docs

54
docs citations

54
times ranked

1089
citing authors

#	ARTICLE	IF	CITATIONS
1	Tropical Abstraction of Biochemical Reaction Networks with Guarantees. <i>Electronic Notes in Theoretical Computer Science</i> , 2020, 350, 3-32.	0.9	2
2	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
3	Sharing Ghost Variables in a Collection of Abstract Domains. <i>Lecture Notes in Computer Science</i> , 2020, , 158-179.	1.0	2
4	Integrative Models for TGF- β 2 Signaling and Extracellular Matrix. <i>Biology of Extracellular Matrix</i> , 2020, , 209-225.	0.3	2
5	Counters in Kappa: Semantics, Simulation, and Static Analysis. <i>Lecture Notes in Computer Science</i> , 2019, , 176-204.	1.0	2
6	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.	1.9	2
7	Reachability Analysis via Orthogonal Sets of Patterns. <i>Electronic Notes in Theoretical Computer Science</i> , 2018, 335, 27-48.	0.9	6
8	KaSa: A Static Analyzer for Kappa. <i>Lecture Notes in Computer Science</i> , 2018, , 285-291.	1.0	5
9	KaDE: A Tool to Compile Kappa Rules into (Reduced) ODE Models. <i>Lecture Notes in Computer Science</i> , 2017, , 291-299.	1.0	7
10	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.	1.0	2
11	Formal derivation of qualitative dynamical models from biochemical networks. <i>BioSystems</i> , 2016, 149, 70-112.	0.9	16
12	Static Analysis and Verification of Aerospace Software by Abstract Interpretation. <i>Foundations and Trends in Programming Languages</i> , 2015, 2, 71-190.	1.8	19
13	Aboveground-Biomass Estimation of a Complex Tropical Forest in India Using Lidar. <i>Remote Sensing</i> , 2015, 7, 10607-10625.	1.8	24
14	An Algebraic Approach for Inferring and Using Symmetries in Rule-based Models. <i>Electronic Notes in Theoretical Computer Science</i> , 2015, 316, 45-65.	0.9	6
15	Derivation of Qualitative Dynamical Models from Biochemical Networks. <i>Lecture Notes in Computer Science</i> , 2015, , 195-207.	1.0	2
16	Reconstructing species-based dynamics from reduced stochastic rule-based models. , 2012, , .		8
17	Combinatorial Complexity and Compositional Drift in Protein Interaction Networks. <i>PLoS ONE</i> , 2012, 7, e32032.	1.1	42
18	Lumpability abstractions of rule-based systems. <i>Theoretical Computer Science</i> , 2012, 431, 137-164.	0.5	45

#	ARTICLE	IF	CITATIONS
19	Formal Reduction for Rule-based Models. Electronic Notes in Theoretical Computer Science, 2011, 276, 29-59.	0.9	12
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.	0.5	21
21	Formal Model Reduction. Lecture Notes in Computer Science, 2011, , 6-6.	1.0	0
22	Combining Model Reductions. Electronic Notes in Theoretical Computer Science, 2010, 265, 73-96.	0.9	12
23	Fragments-based Model Reduction: Some Case Studies. Electronic Notes in Theoretical Computer Science, 2010, 268, 77-96.	0.9	4
24	Intrinsic information carriers in combinatorial dynamical systems. Chaos, 2010, 20, 037108.	1.0	45
25	Static Analysis and Verification of Aerospace Software by Abstract Interpretation. , 2010, , .		39
26	Abstracting the Differential Semantics of Rule-Based Models: Exact and Automated Model Reduction. , 2010, , .		53
27	Internal coarse-graining of molecular systems. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6453-6458.	3.3	181
28	Why does AstrÃ©e scale up?. Formal Methods in System Design, 2009, 35, 229-264.	0.9	80
29	Rule-Based Modelling and Model Perturbation. Lecture Notes in Computer Science, 2009, , 116-137.	1.0	38
30	Investigation of a Biological Repair Scheme. Lecture Notes in Computer Science, 2009, , 1-12.	1.0	1
31	Rule-Based Modelling, Symmetries, Refinements. , 2008, , 103-122.		51
32	Abstract Interpretation of Cellular Signalling Networks. Lecture Notes in Computer Science, 2008, , 83-97.	1.0	51
33	Rule-Based Modelling of Cellular Signalling. Lecture Notes in Computer Science, 2007, , 17-41.	1.0	153
34	Varieties of Static Analyzers: A Comparison with ASTREE. , 2007, , .		32
35	Reachability Analysis of Biological Signalling Pathways by Abstract Interpretation. AIP Conference Proceedings, 2007, , .	0.3	5
36	Scalable Simulation of Cellular Signaling Networks. Lecture Notes in Computer Science, 2007, , 139-157.	1.0	119

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37	Combination of Abstractions in the ASTRÉE Static Analyzer. Lecture Notes in Computer Science, 2007, , 272-300.	1.0	47
38	Abstract interpretation of mobile systems. The Journal of Logic and Algebraic Programming, 2005, 63, 59-130.	1.4	14
39	The Arithmetic-Geometric Progression Abstract Domain. Lecture Notes in Computer Science, 2005, , 42-58.	1.0	19
40	The ASTREE Analyzer. Lecture Notes in Computer Science, 2005, , 21-30.	1.0	245
41	Static Analysis of Digital Filters. Lecture Notes in Computer Science, 2004, , 33-48.	1.0	81
42	A static analyzer for large safety-critical software. , 2003, , .		268
43	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.	1.0	115
44	Dependency Analysis of Mobile Systems. Lecture Notes in Computer Science, 2002, , 314-329.	1.0	11
45	Abstract Interpretation-Based Static Analysis of Mobile Ambients. Lecture Notes in Computer Science, 2001, , 412-430.	1.0	20
46	Occurrence Counting Analysis for the λ -calculus. Electronic Notes in Theoretical Computer Science, 2000, 39, 1-18.	0.9	20
47	Confidentiality Analysis of Mobile Systems. Lecture Notes in Computer Science, 2000, , 135-154.	1.0	16
48	Lumpability Abstractions of Rule-based Systems. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 40, 142-161.	0.8	2