

Georg Struth

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

596
citations

840776

11
h-index

610901

24
g-index

41
all docs

41
docs citations

41
times ranked

123
citing authors

#	ARTICLE	IF	CITATIONS
1	Kleene algebra with domain. ACM Transactions on Computational Logic, 2006, 7, 798-833.	0.9	131
2	Concurrent Kleene Algebra and its Foundations. The Journal of Logic and Algebraic Programming, 2011, 80, 266-296.	1.4	91
3	Algebras of modal operators and partial correctness. Theoretical Computer Science, 2006, 351, 221-239.	0.9	55
4	Automated Reasoning in Kleene Algebra. Lecture Notes in Computer Science, 2007, , 279-294.	1.3	46
5	Internal axioms for domain semirings. Science of Computer Programming, 2011, 76, 181-203.	1.9	41
6	wp ls wlp. Lecture Notes in Computer Science, 2006, , 200-211.	1.3	29
7	Building program construction and verification tools from algebraic principles. Formal Aspects of Computing, 2016, 28, 265-293.	1.8	25
8	Developments in concurrent Kleene algebra. Journal of Logical and Algebraic Methods in Programming, 2016, 85, 617-636.	0.5	12
9	Modal Kleene Algebra Applied to Program Correctness. Lecture Notes in Computer Science, 2016, , 310-325.	1.3	12
10	Verifying Hybrid Systems with Modal Kleene Algebra. Lecture Notes in Computer Science, 2018, , 225-243.	1.3	12
11	A Program Construction and Verification Tool for Separation Logic. Lecture Notes in Computer Science, 2015, , 137-158.	1.3	11
12	Differential Hoare Logics and Refinement Calculi for Hybrid Systems with Isabelle/HOL. Lecture Notes in Computer Science, 2020, , 169-186.	1.3	11
13	Automated verification of refinement laws. Annals of Mathematics and Artificial Intelligence, 2009, 55, 35-62.	1.3	10
14	Program Analysis and Verification Based on Kleene Algebra in Isabelle/HOL. Lecture Notes in Computer Science, 2013, , 197-212.	1.3	10
15	Algebraic Principles for Rely-Guarantee Style Concurrency Verification Tools. Lecture Notes in Computer Science, 2014, , 78-93.	1.3	9
16	Programming and automating mathematics in the Tarskiâ€™Kleene hierarchy. Journal of Logical and Algebraic Methods in Programming, 2014, 83, 87-102.	0.5	7
17	Algebras for Program Correctness in Isabelle/HOL. Lecture Notes in Computer Science, 2014, , 49-64.	1.3	7
18	Concurrent Dynamic Algebra. ACM Transactions on Computational Logic, 2015, 16, 1-38.	0.9	7

#	ARTICLE	IF	CITATIONS
19	Convolution as a Unifying Concept. <i>ACM Transactions on Computational Logic</i> , 2016, 17, 1-25.	0.9	6
20	Generating Posets Beyond N. <i>Lecture Notes in Computer Science</i> , 2020, , 82-99.	1.3	6
21	On the Fine-Structure of Regular Algebra. <i>Journal of Automated Reasoning</i> , 2015, 54, 165-197.	1.4	5
22	Probabilistic rely-guarantee calculus. <i>Theoretical Computer Science</i> , 2016, 655, 120-134.	0.9	5
23	Languages of higher-dimensional automata. <i>Mathematical Structures in Computer Science</i> , 2021, 31, 575-613.	0.6	5
24	Algebraic notions of nontermination: Omega and divergence in idempotent semirings. <i>The Journal of Logic and Algebraic Programming</i> , 2010, 79, 794-811.	1.4	4
25	On the expressive power of Kleene algebra with domain. <i>Information Processing Letters</i> , 2016, 116, 284-288.	0.6	4
26	Automated Reasoning in Higher-Order Regular Algebra. <i>Lecture Notes in Computer Science</i> , 2012, , 66-81.	1.3	4
27	A Discrete Geometric Model of Concurrent Program Execution. <i>Lecture Notes in Computer Science</i> , 2017, , 1-25.	1.3	4
28	Predicate Transformer Semantics for Hybrid Systems. <i>Journal of Automated Reasoning</i> , 2022, 66, 93-139.	1.4	4
29	Posets with interfaces as a model for concurrency. <i>Information and Computation</i> , 2022, , 104914.	0.7	4
30	Hoare Semigroups. <i>Mathematical Structures in Computer Science</i> , 2018, 28, 775-799.	0.6	3
31	Taming Multirelations. <i>ACM Transactions on Computational Logic</i> , 2016, 17, 1-34.	0.9	3
32	Completeness results for omega-regular algebras. <i>Journal of Logical and Algebraic Methods in Programming</i> , 2015, 84, 402-425.	0.5	2
33	Kleisli, Parikh and Peleg compositions and liftings for multirelations. <i>Journal of Logical and Algebraic Methods in Programming</i> , 2017, 90, 84-101.	0.5	2
34	Lightweight Program Construction and Verification Tools in Isabelle/HOL. <i>Lecture Notes in Computer Science</i> , 2014, , 5-19.	1.3	2
35	A Calculus of Space, Time, and Causality: Its Algebra, Geometry, Logic. <i>Lecture Notes in Computer Science</i> , 2019, , 3-21.	1.3	2
36	Domain Semirings United. <i>Acta Cybernetica</i> , 0, , .	0.6	1

#	ARTICLE	IF	CITATIONS
37	Convolution and concurrency. <i>Mathematical Structures in Computer Science</i> , 2021, 31, 918-949.	0.6	1
38	Schedulers and finishers: On generating and filtering the behaviours of an event structure. <i>Theoretical Computer Science</i> , 2018, 744, 97-112.	0.9	0
39	Trimming the Hedges: An Algebra to Tame Concurrency. , 2021, , 317-346.		0
40	Schedulers and Finishers: On Generating the Behaviours of an Event Structure. <i>Lecture Notes in Computer Science</i> , 2016, , 121-138.	1.3	0