

# Lutz Schröder

## List of Publications by Year in descending order

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107  
papers

1,072  
citations

623188

14  
h-index

580395

25  
g-index

114  
all docs

114  
docs citations

114  
times ranked

427  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coalgebraic Reasoning with Global Assumptions in Arithmetic Modal Logics. ACM Transactions on Computational Logic, 2022, 23, 1-34.	0.7	1
2	Quasipolynomial Computation of Nested Fixpoints. Lecture Notes in Computer Science, 2021, , 38-56.	1.0	3
3	A Quantified Coalgebraic van Benthem Theorem. Lecture Notes in Computer Science, 2021, , 551-571.	1.0	2
4	Argument parsing via corpus queries. IT - Information Technology, 2021, 63, 31-44.	0.6	1
5	From generic partition refinement to weighted tree automata minimization. Formal Aspects of Computing, 2021, 33, 695-727.	1.4	2
6	Behavioural Preorders via Graded Monads. , 2021, , .		2
7	Reconstructing Arguments from Noisy Text. Datenbank-Spektrum, 2020, 20, 123-129.	1.2	3
8	Explaining Non-bisimilarity in a Coalgebraic Approach: Games and Distinguishing Formulas. Lecture Notes in Computer Science, 2020, , 133-154.	1.0	3
9	Automata Learning. , 2020, , .		10
10	NP Reasoning in the Monotone $\mu$ -Calculus. Lecture Notes in Computer Science, 2020, , 482-499.	1.0	0
11	Combining Machine Learning and Semantic Features in the Classification of Corporate Disclosures. Journal of Logic, Language and Information, 2019, 28, 309-330.	0.4	4
12	Optimal Satisfiability Checking for Arithmetic $\mu$ -Calculi. Lecture Notes in Computer Science, 2019, , 277-294.	1.0	5
13	Generic Partition Refinement and Weighted Tree Automata. Lecture Notes in Computer Science, 2019, , 280-297.	1.0	5
14	A Modal Characterization Theorem for a Probabilistic Fuzzy Description Logic. , 2019, , .		3
15	Completeness of Flat Coalgebraic Fixpoint Logics. ACM Transactions on Computational Logic, 2018, 19, 1-34.	0.7	3
16	A van Benthem Theorem for Fuzzy Modal Logic. , 2018, , .		11
17	A detailed analysis of the Arden Syntax expression grammar. Journal of Biomedical Informatics, 2018, 83, 196-203.	2.5	2
18	A Metalanguage for Guarded Iteration. Lecture Notes in Computer Science, 2018, , 191-210.	1.0	1

#	ARTICLE	IF	CITATIONS
19	Guarded Traced Categories. Lecture Notes in Computer Science, 2018, , 313-330.	1.0	6
20	Permutation Games for the Weakly Aconjunctive $\mu$ -Calculus. Lecture Notes in Computer Science, 2018, , 361-378.	1.0	3
21	Predicate Liftings and Functor Presentations in Coalgebraic Expression Languages. Lecture Notes in Computer Science, 2018, , 56-77.	1.0	0
22	Automatic verification of application-tailored OSEK kernels. , 2017, , .		6
23	Nominal Automata with Name Binding. Lecture Notes in Computer Science, 2017, , 124-142.	1.0	8
24	A Characterization Theorem for a Modal Description Logic. , 2017, , .		1
25	Unifying Guarded and Unguarded Iteration. Lecture Notes in Computer Science, 2017, , 517-533.	1.0	5
26	Generic Hoare Logic for Order-Enriched Effects with Exceptions. Lecture Notes in Computer Science, 2017, , 208-222.	1.0	3
27	Program Equivalence is Coinductive. , 2016, , .		3
28	Regular Behaviours with Names. Applied Categorical Structures, 2016, 24, 663-701.	0.2	4
29	Global Caching for the Flat Coalgebraic $\mu$ -Calculus. , 2015, , .		2
30	Sound and Complete Equational Reasoning over Comodels. Electronic Notes in Theoretical Computer Science, 2015, 319, 315-331.	0.9	4
31	Unguarded Recursion on Coinductive Resumptions. Electronic Notes in Theoretical Computer Science, 2015, 319, 183-198.	0.9	5
32	Simplified Coalgebraic Trace Equivalence. Lecture Notes in Computer Science, 2015, , 75-90.	1.0	5
33	Reasoning with Global Assumptions in Arithmetic Modal Logics. Lecture Notes in Computer Science, 2015, , 367-380.	1.0	4
34	Cool $\mu$ A Generic Reasoner for Coalgebraic Hybrid Logics (System Description). Lecture Notes in Computer Science, 2014, , 396-402.	1.0	8
35	Monodic Fragments of Probabilistic First-Order Logic. Lecture Notes in Computer Science, 2014, , 256-267.	1.0	0
36	Integrating generic sensor fusion algorithms with sound state representations through encapsulation of manifolds. Information Fusion, 2013, 14, 57-77.	11.7	179

#	ARTICLE	IF	CITATIONS
37	A coinductive calculus for asynchronous side-effecting processes. <i>Information and Computation</i> , 2013, 231, 204-232.	0.5	4
38	A Relatively Complete Generic Hoare Logic for Order-Enriched Effects. , 2013, , .		14
39	Simulations and Bisimulations for Coalgebraic Modal Logics. <i>Lecture Notes in Computer Science</i> , 2013, , 253-266.	1.0	11
40	Exploring the Boundaries of Monad Tensorability on Set. <i>Logical Methods in Computer Science</i> , 2013, 9, .	0.4	3
41	Coalgebraic Announcement Logics. <i>Lecture Notes in Computer Science</i> , 2013, , 101-112.	1.0	0
42	Coalgebraic Predicate Logic. <i>Lecture Notes in Computer Science</i> , 2012, , 299-311.	1.0	7
43	Narcissists Are Easy, Stepmothers Are Hard. <i>Lecture Notes in Computer Science</i> , 2012, , 240-254.	1.0	0
44	Powermonads and Tensors of Unranked Effects. , 2011, , .		3
45	Modular algorithms for heterogeneous modal logics via multi-sorted coalgebra. <i>Mathematical Structures in Computer Science</i> , 2011, 21, 235-266.	0.5	15
46	Formalizing and Operationalizing Industrial Standards. <i>Lecture Notes in Computer Science</i> , 2011, , 81-95.	1.0	0
47	A Counterexample to Tensorability of Effects. <i>Lecture Notes in Computer Science</i> , 2011, , 208-221.	1.0	2
48	A Coinductive Calculus for Asynchronous Side-Effecting Processes. <i>Lecture Notes in Computer Science</i> , 2011, , 276-287.	1.0	6
49	Rank-1 Modal Logics are Coalgebraic. <i>Journal of Logic and Computation</i> , 2010, 20, 1113-1147.	0.5	23
50	A generic complete dynamic logic for reasoning about purity and effects. <i>Formal Aspects of Computing</i> , 2010, 22, 363-384.	1.4	6
51	Cut elimination in coalgebraic logics. <i>Information and Computation</i> , 2010, 208, 1447-1468.	0.5	13
52	Optimizing Conditional Logic Reasoning within CoLoSS. <i>Electronic Notes in Theoretical Computer Science</i> , 2010, 262, 157-171.	0.9	2
53	Coalgebraic Correspondence Theory. <i>Lecture Notes in Computer Science</i> , 2010, , 328-342.	1.0	9
54	Global Caching for Coalgebraic Description Logics. <i>Lecture Notes in Computer Science</i> , 2010, , 46-60.	1.0	8

#	ARTICLE	IF	CITATIONS
55	Flat Coalgebraic Fixed Point Logics. Lecture Notes in Computer Science, 2010, , 524-538.	1.0	9
56	PSPACE bounds for rank-1 modal logics. ACM Transactions on Computational Logic, 2009, 10, 1-33.	0.7	37
57	HasCasl: Integrated higher-order specification and program development. Theoretical Computer Science, 2009, 410, 1217-1260.	0.5	20
58	CoLoSS: The Coalgebraic Logic Satisfiability Solver. Electronic Notes in Theoretical Computer Science, 2009, 231, 41-54.	0.9	8
59	Coalgebraic Hybrid Logic. Lecture Notes in Computer Science, 2009, , 137-151.	1.0	16
60	Kleene Monads: Handling Iteration in a Framework of Generic Effects. Lecture Notes in Computer Science, 2009, , 18-33.	1.0	7
61	Formal Management of CAD/CAM Processes. Lecture Notes in Computer Science, 2009, , 223-238.	1.0	4
62	Admissibility of Cut in Coalgebraic Logics. Electronic Notes in Theoretical Computer Science, 2008, 203, 221-241.	0.9	7
63	Expressivity of coalgebraic modal logic: The limits and beyond. Theoretical Computer Science, 2008, 390, 230-247.	0.5	77
64	Linearizability of non-expansive semigroup actions on metric spaces. Topology and Its Applications, 2008, 155, 1576-1579.	0.2	2
65	Beyond Rank 1: Algebraic Semantics and Finite Models for Coalgebraic Logics. , 2008, , 66-80.		13
66	Bootstrapping Inductive and Coinductive Types in HasCASL. Logical Methods in Computer Science, 2008, 4, .	0.4	2
67	A Generic Complete Dynamic Logic for Reasoning About Purity and Effects. , 2008, , 199-214.		4
68	A finite model construction for coalgebraic modal logic. The Journal of Logic and Algebraic Programming, 2007, 73, 97-110.	1.4	35
69	Rank-1 Modal Logics Are Coalgebraic. , 2007, , 573-585.		4
70	Modular Algorithms for Heterogeneous Modal Logics. Lecture Notes in Computer Science, 2007, , 459-471.	1.0	17
71	Bootstrapping Types and Cotypes in HasCASL. , 2007, , 447-461.		1
72	The HASCASL prologue: Categorical syntax and semantics of the partial <small>overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co</small>	0.5	3

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73	A coalgebraic approach to the semantics of the ambient calculus. Theoretical Computer Science, 2006, 366, 121-143.	0.5	8
74	Algebraic coalgebraic specification in CoCasl. The Journal of Logic and Algebraic Programming, 2006, 67, 146-197.	1.4	23
75	Closing a Million-Landmarks Loop. , 2006, , .		46
76	Completeness of Global Evaluation Logic. Lecture Notes in Computer Science, 2006, , 447-458.	1.0	4
77	Coalgebraic Modal Logic in CoCasl. , 2006, , 127-141.		1
78	Amalgamation in the semantics of CASL. Theoretical Computer Science, 2005, 331, 215-247.	0.5	13
79	Parametrized Exceptions. Lecture Notes in Computer Science, 2005, , 424-438.	1.0	4
80	Type Class Polymorphism in an Institutional Framework. Lecture Notes in Computer Science, 2005, , 234-251.	1.0	7
81	Expressivity of Coalgebraic Modal Logic: The Limits and Beyond. Lecture Notes in Computer Science, 2005, , 440-454.	1.0	22
82	Iterative Circular Coinduction for CoCasl in Isabelle/HOL. Lecture Notes in Computer Science, 2005, , 341-356.	1.0	13
83	Globalization of confluent partial actions on topological and metric spaces. Topology and Its Applications, 2004, 145, 119-145.	0.2	25
84	Generic Exception Handling and the Java Monad. Lecture Notes in Computer Science, 2004, , 443-459.	1.0	14
85	The Logic of the Partial $\hat{\rightarrow}$ -Calculus with Equality. Lecture Notes in Computer Science, 2004, , 385-399.	1.0	2
86	Classifying categories for partial equational logic. Electronic Notes in Theoretical Computer Science, 2003, 69, 305-322.	0.9	9
87	CoCasl at Work " Modelling Process Algebra. Electronic Notes in Theoretical Computer Science, 2003, 82, 206-220.	0.9	3
88	Monad-Independent Dynamic Logic in HasCasl. Lecture Notes in Computer Science, 2003, , 425-441.	1.0	6
89	Henkin Models of the Partial $\hat{\rightarrow}$ -Calculus. Lecture Notes in Computer Science, 2003, , 498-512.	1.0	4
90	Monad-Independent Hoare Logic in HASCASL. Lecture Notes in Computer Science, 2003, , 261-277.	1.0	17

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91	Algebraic-Coalgebraic Specification in CoCasl. Lecture Notes in Computer Science, 2003, , 376-392.	1.0	10
92	Universal aspects of probabilistic automata. Mathematical Structures in Computer Science, 2002, 12, 481-512.	0.5	5
93	Monads on Composition Graphs. Applied Categorical Structures, 2002, 10, 221-236.	0.2	2
94	Towards Trustworthy Specification I: Consistency Checks. Lecture Notes in Computer Science, 2002, , 305-327.	1.0	7
95	HasCasl: Towards Integrated Specification and Development of Functional Programs. Lecture Notes in Computer Science, 2002, , 99-116.	1.0	30
96	Free Factorizations. Applied Categorical Structures, 2001, 9, 571-593.	0.2	1
97	TRACES OF EPIMORPHISM CLASSES. Quaestiones Mathematicae, 2001, 24, 193-200.	0.2	0
98	Categories: A Free Tour. , 2001, , 1-27.		0
99	Semantics of Architectural Specifications in Casl. Lecture Notes in Computer Science, 2001, , 253-268.	1.0	13
100	Amalgamation in CASL via Enriched Signatures. Lecture Notes in Computer Science, 2001, , 993-1004.	1.0	6
101	Life without the Terminal Type. Lecture Notes in Computer Science, 2001, , 429-442.	1.0	0
102	Free Adjunction of Morphisms. Applied Categorical Structures, 2000, 8, 595-606.	0.2	6
103	Specifying Real Numbers in CASL. Lecture Notes in Computer Science, 2000, , 146-161.	1.0	1
104	A Van Benthem/Rosen theorem for coalgebraic predicate logic. Journal of Logic and Computation, 0, , exv043.	0.5	4
105	Probabilistic Description Logics for Subjective Uncertainty. Journal of Artificial Intelligence Research, 0, 58, 1-66.	7.0	21
106	Shallow Models for Non-iterative Modal Logics. Lecture Notes in Computer Science, 0, , 324-331.	1.0	10
107	Finitary monads on the category of posets. Mathematical Structures in Computer Science, 0, , 1-23.	0.5	3