

Silvio Ghilardi

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

1,803
citations

304602

22
h-index

360920

35
g-index

104
all docs

104
docs citations

104
times ranked

391
citing authors

#	ARTICLE	IF	CITATIONS
1	Unification in intuitionistic logic. <i>Journal of Symbolic Logic</i> , 1999, 64, 859-880.	0.4	133
2	Best solving modal equations. <i>Annals of Pure and Applied Logic</i> , 2000, 102, 183-198.	0.3	99
3	MCMT: A Model Checker Modulo Theories. <i>Lecture Notes in Computer Science</i> , 2010, , 22-29.	1.0	83
4	Backward Reachability of Array-based Systems by SMT solving: Termination and Invariant Synthesis. <i>Logical Methods in Computer Science</i> , 0, Volume 6, Issue 4, .	0.4	72
5	Model-Theoretic Methods in Combined Constraint Satisfiability. <i>Journal of Automated Reasoning</i> , 2004, 33, 221-249.	1.1	62
6	Unification through projectivity. <i>Journal of Logic and Computation</i> , 1997, 7, 733-752.	0.5	58
7	An algebraic theory of normal forms. <i>Annals of Pure and Applied Logic</i> , 1995, 71, 189-245.	0.3	53
8	LTL over description logic axioms. <i>ACM Transactions on Computational Logic</i> , 2012, 13, 1-32.	0.7	51
9	Undefinability of propositional quantifiers in the modal system S4. <i>Studia Logica</i> , 1995, 55, 259-271.	0.4	47
10	9 First-order modal logic. <i>Studies in Logic and Practical Reasoning</i> , 2007, , 549-620.	1.4	45
11	Unification in modal and description logics. <i>Logic Journal of the IGPL</i> , 2011, 19, 705-730.	1.3	44
12	Lazy Abstraction with Interpolants for Arrays. <i>Lecture Notes in Computer Science</i> , 2012, , 46-61.	1.0	40
13	Towards SMT Model Checking of Array-Based Systems. <i>Lecture Notes in Computer Science</i> , 2008, , 67-82.	1.0	38
14	Incompleteness results in Kripke semantics. <i>Journal of Symbolic Logic</i> , 1991, 56, 517-538.	0.4	37
15	Presheaf semantics and independence results for some non-classical first-order logics. <i>Archive for Mathematical Logic</i> , 1989, 29, 125-136.	0.2	34
16	Filtering unification and most general unifiers in modal logic. <i>Journal of Symbolic Logic</i> , 2004, 69, 879-906.	0.4	34
17	Unification, finite duality and projectivity in varieties of Heyting algebras. <i>Annals of Pure and Applied Logic</i> , 2004, 127, 99-115.	0.3	34
18	Decision procedures for extensions of the theory of arrays. <i>Annals of Mathematics and Artificial Intelligence</i> , 2007, 50, 231-254.	0.9	33

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19	A sheaf representation and duality for finitely presented Heyting algebras. <i>Journal of Symbolic Logic</i> , 1995, 60, 911-939.	0.4	32
20	An algebraic approach to subframe logics. Intuitionistic case. <i>Annals of Pure and Applied Logic</i> , 2007, 147, 84-100.	0.3	32
21	Sheaves, Games, and Model Completions. <i>Trends in Logic</i> , 2002, , .	0.2	32
22	SAFARI: SMT-Based Abstraction for Arrays with Interpolants. <i>Lecture Notes in Computer Science</i> , 2012, , 679-685.	1.0	30
23	Decidability and Undecidability Results for Nelson-Oppen and Rewrite-Based Decision Procedures. <i>Lecture Notes in Computer Science</i> , 2006, , 513-527.	1.0	28
24	A Resolution/Tableaux Algorithm for Projective Approximations in IPC. <i>Logic Journal of the IGPL</i> , 2002, 10, 229-243.	1.3	24
25	Booster: An Acceleration-Based Verification Framework for Array Programs. <i>Lecture Notes in Computer Science</i> , 2014, , 18-23.	1.0	22
26	Modal and tense predicate logic: Models in presheaves and categorical conceptualization. <i>Lecture Notes in Mathematics</i> , 1988, , 130-142.	0.1	21
27	An extension of lazy abstraction with interpolation for programs with arrays. <i>Formal Methods in System Design</i> , 2014, 45, 63-109.	0.9	21
28	A new combination procedure for the word problem that generalizes fusion decidability results in modal logics. <i>Information and Computation</i> , 2006, 204, 1413-1452.	0.5	19
29	A comprehensive combination framework. <i>ACM Transactions on Computational Logic</i> , 2008, 9, 1-54.	0.7	19
30	Petri Nets with Parameterised Data. <i>Lecture Notes in Computer Science</i> , 2020, , 55-74.	1.0	19
31	Quantifier-Free Interpolation of a Theory of Arrays. <i>Logical Methods in Computer Science</i> , 0, Volume 8, Issue 2, .	0.4	19
32	Decision Procedures for Flat Array Properties. <i>Lecture Notes in Computer Science</i> , 2014, , 15-30.	1.0	18
33	Continuity, freeness, and filtrations. <i>Journal of Applied Non-Classical Logics</i> , 2010, 20, 193-217.	0.4	17
34	Quantifier-free interpolation in combinations of equality interpolating theories. <i>ACM Transactions on Computational Logic</i> , 2014, 15, 1-34.	0.7	17
35	Directed frames. <i>Archive for Mathematical Logic</i> , 1989, 29, 53-67.	0.2	16
36	An Algebraic Approach to Subframe Logics. Modal Case. <i>Notre Dame Journal of Formal Logic</i> , 2011, 52, .	0.2	16

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37	Model completions and r-Heyting categories. <i>Annals of Pure and Applied Logic</i> , 1997, 88, 27-46.	0.3	15
38	Combination Methods for Satisfiability and Model-Checking of Infinite-State Systems. <i>Lecture Notes in Computer Science</i> , 2007, , 362-378.	1.0	15
39	Quantified extensions of canonical propositional intermediate logics. <i>Studia Logica</i> , 1992, 51, 195-214.	0.4	14
40	SMT-based verification of data-aware processes: a model-theoretic approach. <i>Mathematical Structures in Computer Science</i> , 2020, 30, 271-313.	0.5	14
41	From Model Completeness to Verification of Data Aware Processes. <i>Lecture Notes in Computer Science</i> , 2019, , 212-239.	1.0	13
42	Definability of Accelerated Relations in a Theory of Arrays and Its Applications. <i>Lecture Notes in Computer Science</i> , 2013, , 23-39.	1.0	13
43	Connecting many-sorted theories. <i>Journal of Symbolic Logic</i> , 2007, 72, 535-583.	0.4	12
44	The bounded proof property via step algebras and step frames. <i>Annals of Pure and Applied Logic</i> , 2014, 165, 1832-1863.	0.3	12
45	Modal logics with n-ary connectives. <i>Zeitschrift für Mathematische Logik Und Grundlagen Der Mathematik</i> , 1990, 36, 193-215.	0.2	11
46	Combining word problems through rewriting in categories with products. <i>Theoretical Computer Science</i> , 2003, 294, 103-149.	0.5	11
47	Decision Procedures for Flat Array Properties. <i>Journal of Automated Reasoning</i> , 2015, 54, 327-352.	1.1	11
48	Modularity results for interpolation, amalgamation and superamalgamation. <i>Annals of Pure and Applied Logic</i> , 2018, 169, 731-754.	0.3	11
49	Connecting Many-Sorted Theories. <i>Lecture Notes in Computer Science</i> , 2005, , 278-294.	1.0	11
50	Brief Announcement: Automated Support for the Design and Validation of Fault Tolerant Parameterized Systems - A Case Study. <i>Lecture Notes in Computer Science</i> , 2010, , 392-394.	1.0	11
51	Automated Analysis of Parametric Timing-Based Mutual Exclusion Algorithms. <i>Lecture Notes in Computer Science</i> , 2012, , 279-294.	1.0	11
52	Algebraic and Model Theoretic Techniques for Fusion Decidability in Modal Logics. <i>Lecture Notes in Computer Science</i> , 2003, , 152-166.	1.0	10
53	Counting Constraints in Flat Array Fragments. <i>Lecture Notes in Computer Science</i> , 2016, , 65-81.	1.0	10
54	Goal-Directed Invariant Synthesis for Model Checking Modulo Theories. <i>Lecture Notes in Computer Science</i> , 2009, , 173-188.	1.0	10

#	ARTICLE	IF	CITATIONS
55	Petri net-based object-centric processes with read-only data. <i>Information Systems</i> , 2022, 107, 102011.	2.4	10
56	Universal Guards, Relativization of Quantifiers, and Failure Models in Model Checking Modulo Theories. <i>Journal of Satisfiability, Boolean Modeling and Computation</i> , 2012, 8, 29-61.	1.2	9
57	Cardinality constraints for arrays (decidability results and applications). <i>Formal Methods in System Design</i> , 2017, 51, 545-574.	0.9	9
58	From Strong Amalgamability to Modularity of Quantifier-Free Interpolation. <i>Lecture Notes in Computer Science</i> , 2012, , 118-133.	1.0	9
59	Quantifier Elimination and Provers Integration. <i>Electronic Notes in Theoretical Computer Science</i> , 2003, 86, 22-34.	0.9	8
60	Model Completeness, Covers and Superposition. <i>Lecture Notes in Computer Science</i> , 2019, , 142-160.	1.0	8
61	A New Combination Procedure for the Word Problem That Generalizes Fusion Decidability Results in Modal Logics. <i>Lecture Notes in Computer Science</i> , 2004, , 183-197.	1.0	7
62	Combined Covers and Beth Definability. <i>Lecture Notes in Computer Science</i> , 2020, , 181-200.	1.0	7
63	Monadic second order logic as the model companion of temporal logic. , 2016, , .		6
64	A Comprehensive Framework for Combined Decision Procedures. <i>Lecture Notes in Computer Science</i> , 2005, , 1-30.	1.0	6
65	AUTOMATED TERMINATION IN MODEL-CHECKING MODULO THEORIES. <i>International Journal of Foundations of Computer Science</i> , 2013, 24, 211-232.	0.8	5
66	A Framework for the Verification of Parameterized Infinite-state Systems*. <i>Fundamenta Informaticae</i> , 2017, 150, 1-24.	0.3	5
67	A MODEL-THEORETIC CHARACTERIZATION OF MONADIC SECOND ORDER LOGIC ON INFINITE WORDS. <i>Journal of Symbolic Logic</i> , 2017, 82, 62-76.	0.4	5
68	Admissible Bases Via Stable Canonical Rules. <i>Studia Logica</i> , 2016, 104, 317-341.	0.4	4
69	Delta-BPMN: A Concrete Language and Verifier for Data-Aware BPMN. <i>Lecture Notes in Computer Science</i> , 2021, , 179-196.	1.0	4
70	Model Completeness, Uniform Interpolants and Superposition Calculus. <i>Journal of Automated Reasoning</i> , 2021, 65, 941-969.	1.1	4
71	Formal Verification of ARP (Address Resolution Protocol) Through SMT-Based Model Checking - A Case Study -. <i>Lecture Notes in Computer Science</i> , 2017, , 391-406.	1.0	4
72	Light-Weight SMT-based Model Checking. <i>Electronic Notes in Theoretical Computer Science</i> , 2009, 250, 85-102.	0.9	3

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73	Interpolation and Amalgamation for Arrays with MaxDiff. Lecture Notes in Computer Science, 2021, , 268-288.	1.0	3
74	Noetherianity and Combination Problems. Lecture Notes in Computer Science, 2007, , 206-220.	1.0	3
75	Bounded Proofs and Step Frames. Lecture Notes in Computer Science, 2013, , 44-58.	1.0	3
76	Interpolation and Uniform Interpolation in Quantifier-Free Fragments of Combined First-Order Theories. Mathematics, 2022, 10, 461.	1.1	3
77	Fixed-point Elimination in the Intuitionistic Propositional Calculus. ACM Transactions on Computational Logic, 2020, 21, 1-37.	0.7	2
78	Free Heyting algebra endomorphisms: Ruitenburg's Theorem and beyond. Mathematical Structures in Computer Science, 2020, 30, 572-596.	0.5	2
79	Automated Termination in Model Checking Modulo Theories. Lecture Notes in Computer Science, 2011, , 110-124.	1.0	2
80	Fixed-Point Elimination in the Intuitionistic Propositional Calculus. Lecture Notes in Computer Science, 2016, , 126-141.	1.0	2
81	Model Completions. Trends in Logic, 2002, , 49-71.	0.2	2
82	Free Modal Algebras Revisited: The Step-by-Step Method. Outstanding Contributions To Logic, 2014, , 43-62.	0.2	2
83	Combination of Uniform Interpolants via Beth Definability. Journal of Automated Reasoning, 0, , .	1.1	2
84	From Bisimulation Quantifiers to Classifying Toposes. , 2002, , 193-220.		1
85	The logic of transitive and dense frames: from the step-frame analysis to full cut-elimination. Logic Journal of the IGPL, 2014, 22, 585-596.	1.3	1
86	Formal verification of data-intensive applications through model checking modulo theories. , 2017, , .		1
87	EXISTENTIALLY CLOSED BROUWERIAN SEMILATTICES. Journal of Symbolic Logic, 2019, 84, 1544-1575.	0.4	1
88	Diego's Theorem for nuclear implicative semilattices. Indagationes Mathematicae, 2021, 32, 498-535.	0.2	1
89	Substitution, Quantifiers and Identity in Modal Logic. Applied Logic Series, 2001, , 87-115.	0.3	1
90	Counter Simulations via Higher Order Quantifier Elimination: a preliminary report. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 262, 39-53.	0.8	1

#	ARTICLE	IF	CITATIONS
91	A Formal Verification of ArpON – A Tool for Avoiding Man-in-the-Middle Attacks in Ethernet Networks. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 4082-4098.	3.7	1
92	One-step Heyting Algebras and Hypersequent Calculi with the Bounded Proof Property. Journal of Logic and Computation, 2016, , exw029.	0.5	0
93	Higher-Order Quantifier Elimination, Counter Simulations and Fault-Tolerant Systems. Journal of Automated Reasoning, 2021, 65, 425-460.	1.1	0
94	Monotonic Abstraction Techniques: from Parametric to Software Model Checking. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 168, 1-11.	0.8	0