

Silvio Ghilardi

List of Publications by Year in descending order

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papers

1,803
citations

304602

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104
docs citations

104
times ranked

391
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Interpolation and Uniform Interpolation in Quantifier-Free Fragments of Combined First-Order Theories. Mathematics, 2022, 10, 461.	1.1	3
3	Petri net-based object-centric processes with read-only data. Information Systems, 2022, 107, 102011.	2.4	10
4	Higher-Order Quantifier Elimination, Counter Simulations and Fault-Tolerant Systems. Journal of Automated Reasoning, 2021, 65, 425-460.	1.1	0
5	Delta-BPMN: A Concrete Language and Verifier for Data-Aware BPMN. Lecture Notes in Computer Science, 2021, , 179-196.	1.0	4
6	Interpolation and Amalgamation for Arrays with MaxDiff. Lecture Notes in Computer Science, 2021, , 268-288.	1.0	3
7	Diego’s Theorem for nuclear implicative semilattices. Indagationes Mathematicae, 2021, 32, 498-535.	0.2	1
8	Model Completeness, Uniform Interpolants and Superposition Calculus. Journal of Automated Reasoning, 2021, 65, 941-969.	1.1	4
9	Fixed-point Elimination in the Intuitionistic Propositional Calculus. ACM Transactions on Computational Logic, 2020, 21, 1-37.	0.7	2
10	SMT-based verification of data-aware processes: a model-theoretic approach. Mathematical Structures in Computer Science, 2020, 30, 271-313.	0.5	14
11	Free Heyting algebra endomorphisms: Ruitenburg’s Theorem and beyond. Mathematical Structures in Computer Science, 2020, 30, 572-596.	0.5	2
12	Combined Covers and Beth Definability. Lecture Notes in Computer Science, 2020, , 181-200.	1.0	7
13	Petri Nets with Parameterised Data. Lecture Notes in Computer Science, 2020, , 55-74.	1.0	19
14	EXISTENTIALLY CLOSED BROUWERIAN SEMILATTICES. Journal of Symbolic Logic, 2019, 84, 1544-1575.	0.4	1
15	From Model Completeness to Verification of Data Aware Processes. Lecture Notes in Computer Science, 2019, , 212-239.	1.0	13
16	Model Completeness, Covers and Superposition. Lecture Notes in Computer Science, 2019, , 142-160.	1.0	8
17	Modularity results for interpolation, amalgamation and superamalgamation. Annals of Pure and Applied Logic, 2018, 169, 731-754.	0.3	11
18	A Framework for the Verification of Parameterized Infinite-state Systems*. Fundamenta Informaticae, 2017, 150, 1-24.	0.3	5

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19	A MODEL-THEORETIC CHARACTERIZATION OF MONADIC SECOND ORDER LOGIC ON INFINITE WORDS. Journal of Symbolic Logic, 2017, 82, 62-76.	0.4	5
20	Formal verification of data-intensive applications through model checking modulo theories. , 2017, , .		1
21	Cardinality constraints for arrays (decidability results and applications). Formal Methods in System Design, 2017, 51, 545-574.	0.9	9
22	Formal Verification of ARP (Address Resolution Protocol) Through SMT-Based Model Checking - A Case Study -. Lecture Notes in Computer Science, 2017, , 391-406.	1.0	4
23	Monadic second order logic as the model companion of temporal logic. , 2016, , .		6
24	One-step Heyting Algebras and Hypersequent Calculi with the Bounded Proof Property. Journal of Logic and Computation, 2016, , exw029.	0.5	0
25	Admissible Bases Via Stable Canonical Rules. Studia Logica, 2016, 104, 317-341.	0.4	4
26	Counting Constraints in Flat Array Fragments. Lecture Notes in Computer Science, 2016, , 65-81.	1.0	10
27	Fixed-Point Elimination in the Intuitionistic Propositional Calculus. Lecture Notes in Computer Science, 2016, , 126-141.	1.0	2
28	Decision Procedures for Flat Array Properties. Journal of Automated Reasoning, 2015, 54, 327-352.	1.1	11
29	Quantifier-free interpolation in combinations of equality interpolating theories. ACM Transactions on Computational Logic, 2014, 15, 1-34.	0.7	17
30	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
31	The bounded proof property via step algebras and step frames. Annals of Pure and Applied Logic, 2014, 165, 1832-1863.	0.3	12
32	An extension of lazy abstraction with interpolation for programs with arrays. Formal Methods in System Design, 2014, 45, 63-109.	0.9	21
33	Booster: An Acceleration-Based Verification Framework for Array Programs. Lecture Notes in Computer Science, 2014, , 18-23.	1.0	22
34	Decision Procedures for Flat Array Properties. Lecture Notes in Computer Science, 2014, , 15-30.	1.0	18
35	Free Modal Algebras Revisited: The Step-by-Step Method. Outstanding Contributions To Logic, 2014, , 43-62.	0.2	2
36	AUTOMATED TERMINATION IN MODEL-CHECKING MODULO THEORIES. International Journal of Foundations of Computer Science, 2013, 24, 211-232.	0.8	5

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37	Bounded Proofs and Step Frames. Lecture Notes in Computer Science, 2013, , 44-58.	1.0	3
38	Definability of Accelerated Relations in a Theory of Arrays and Its Applications. Lecture Notes in Computer Science, 2013, , 23-39.	1.0	13
39	LTL over description logic axioms. ACM Transactions on Computational Logic, 2012, 13, 1-32.	0.7	51
40	Universal Guards, Relativization of Quantifiers, and Failure Models in Model Checking Modulo Theories. Journal of Satisfiability, Boolean Modeling and Computation, 2012, 8, 29-61.	1.2	9
41	Lazy Abstraction with Interpolants for Arrays. Lecture Notes in Computer Science, 2012, , 46-61.	1.0	40
42	Automated Analysis of Parametric Timing-Based Mutual Exclusion Algorithms. Lecture Notes in Computer Science, 2012, , 279-294.	1.0	11
43	From Strong Amalgamability to Modularity of Quantifier-Free Interpolation. Lecture Notes in Computer Science, 2012, , 118-133.	1.0	9
44	SAFARI: SMT-Based Abstraction for Arrays with Interpolants. Lecture Notes in Computer Science, 2012, , 679-685.	1.0	30
45	Unification in modal and description logics. Logic Journal of the IGPL, 2011, 19, 705-730.	1.3	44
46	An Algebraic Approach to Subframe Logics. Modal Case. Notre Dame Journal of Formal Logic, 2011, 52, .	0.2	16
47	Automated Termination in Model Checking Modulo Theories. Lecture Notes in Computer Science, 2011, , 110-124.	1.0	2
48	Continuity, freeness, and filtrations. Journal of Applied Non-Classical Logics, 2010, 20, 193-217.	0.4	17
49	MCMT: A Model Checker Modulo Theories. Lecture Notes in Computer Science, 2010, , 22-29.	1.0	83
50	Brief Announcement: Automated Support for the Design and Validation of Fault Tolerant Parameterized Systems - A Case Study. Lecture Notes in Computer Science, 2010, , 392-394.	1.0	11
51	Light-Weight SMT-based Model Checking. Electronic Notes in Theoretical Computer Science, 2009, 250, 85-102.	0.9	3
52	Goal-Directed Invariant Synthesis for Model Checking Modulo Theories. Lecture Notes in Computer Science, 2009, , 173-188.	1.0	10
53	A comprehensive combination framework. ACM Transactions on Computational Logic, 2008, 9, 1-54.	0.7	19
54	Towards SMT Model Checking of Array-Based Systems. Lecture Notes in Computer Science, 2008, , 67-82.	1.0	38

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55	Connecting many-sorted theories. <i>Journal of Symbolic Logic</i> , 2007, 72, 535-583.	0.4	12
56	9 First-order modal logic. <i>Studies in Logic and Practical Reasoning</i> , 2007, , 549-620.	1.4	45
57	An algebraic approach to subframe logics. Intuitionistic case. <i>Annals of Pure and Applied Logic</i> , 2007, 147, 84-100.	0.3	32
58	Decision procedures for extensions of the theory of arrays. <i>Annals of Mathematics and Artificial Intelligence</i> , 2007, 50, 231-254.	0.9	33
59	Combination Methods for Satisfiability and Model-Checking of Infinite-State Systems. <i>Lecture Notes in Computer Science</i> , 2007, , 362-378.	1.0	15
60	Noetherianity and Combination Problems. <i>Lecture Notes in Computer Science</i> , 2007, , 206-220.	1.0	3
61	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
62	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
63	Connecting Many-Sorted Theories. <i>Lecture Notes in Computer Science</i> , 2005, , 278-294.	1.0	11
64	A Comprehensive Framework for Combined Decision Procedures. <i>Lecture Notes in Computer Science</i> , 2005, , 1-30.	1.0	6
65	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
66	Filtering unification and most general unifiers in modal logic. <i>Journal of Symbolic Logic</i> , 2004, 69, 879-906.	0.4	34
67	Model-Theoretic Methods in Combined Constraint Satisfiability. <i>Journal of Automated Reasoning</i> , 2004, 33, 221-249.	1.1	62
68	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
69	Combining word problems through rewriting in categories with products. <i>Theoretical Computer Science</i> , 2003, 294, 103-149.	0.5	11
70	Quantifier Elimination and Provers Integration. <i>Electronic Notes in Theoretical Computer Science</i> , 2003, 86, 22-34.	0.9	8
71	Algebraic and Model Theoretic Techniques for Fusion Decidability in Modal Logics. <i>Lecture Notes in Computer Science</i> , 2003, , 152-166.	1.0	10
72	A Resolution/Tableaux Algorithm for Projective Approximations in IPC. <i>Logic Journal of the IGPL</i> , 2002, 10, 229-243.	1.3	24

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73	From Bisimulation Quantifiers to Classifying Toposes. , 2002, , 193-220.		1
74	Sheaves, Games, and Model Completions. Trends in Logic, 2002, , .	0.2	32
75	Model Completions. Trends in Logic, 2002, , 49-71.	0.2	2
76	Substitution, Quantifiers and Identity in Modal Logic. Applied Logic Series, 2001, , 87-115.	0.3	1
77	Best solving modal equations. Annals of Pure and Applied Logic, 2000, 102, 183-198.	0.3	99
78	Unification in intuitionistic logic. Journal of Symbolic Logic, 1999, 64, 859-880.	0.4	133
79	Unification through projectivity. Journal of Logic and Computation, 1997, 7, 733-752.	0.5	58
80	Model completions and r-Heyting categories. Annals of Pure and Applied Logic, 1997, 88, 27-46.	0.3	15
81	Undefinability of propositional quantifiers in the modal system S4. Studia Logica, 1995, 55, 259-271.	0.4	47
82	An algebraic theory of normal forms. Annals of Pure and Applied Logic, 1995, 71, 189-245.	0.3	53
83	A sheaf representation and duality for finitely presented Heyting algebras. Journal of Symbolic Logic, 1995, 60, 911-939.	0.4	32
84	Quantified extensions of canonical propositional intermediate logics. Studia Logica, 1992, 51, 195-214.	0.4	14
85	Incompleteness results in Kripke semantics. Journal of Symbolic Logic, 1991, 56, 517-538.	0.4	37
86	Modal logics with n-ary connectives. Zeitschrift Für Mathematische Logik Und Grundlagen Der Mathematik, 1990, 36, 193-215.	0.2	11
87	Directed frames. Archive for Mathematical Logic, 1989, 29, 53-67.	0.2	16
88	Presheaf semantics and independence results for some non-classical first-order logics. Archive for Mathematical Logic, 1989, 29, 125-136.	0.2	34
89	Modal and tense predicate logic: Models in presheaves and categorical conceptualization. Lecture Notes in Mathematics, 1988, , 130-142.	0.1	21
90	Backward Reachability of Array-based Systems by SMT solving: Termination and Invariant Synthesis. Logical Methods in Computer Science, 0, Volume 6, Issue 4, .	0.4	72

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91	Quantifier-Free Interpolation of a Theory of Arrays. Logical Methods in Computer Science, 0, Volume 8, Issue 2, .	0.4	19
92	Counter Simulations via Higher Order Quantifier Elimination: a preliminary report. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 262, 39-53.	0.8	1
93	Monotonic Abstraction Techniques: from Parametric to Software Model Checking. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 168, 1-11.	0.8	0
94	Combination of Uniform Interpolants via Beth Definability. Journal of Automated Reasoning, 0, , .	1.1	2