Isabella Mastroeni

List of Publications by Year
in descending order

48 papers	563 citations	840776 11 h-index	996975 15 g-index
50 all docs	50 docs citations	50 times ranked	150 citing authors

#	Article	IF	Citations
1	Abstract non-interference. , 2004, , .		106
2	Data dependencies and program slicing. , 2008, , .		31
3	Non-Standard Semantics for Program Slicing. Higher-Order and Symbolic Computation, 2003, 16, 297-339.	0.3	29
4	Obfuscation by partial evaluation of distorted interpreters. , 2012, , .		27
5	Abstract non-interference. ACM SIGPLAN Notices, 2004, 39, 186-197.	0.2	20
6	Abstract Non-Interference. ACM Transactions on Privacy and Security, 2018, 21, 1-31.	3.0	19
7	Abstract Program Slicing. ACM Transactions on Computational Logic, 2017, 18, 1-58.	0.9	17
8	Adjoining Declassification and Attack Models by Abstract Interpretation. Lecture Notes in Computer Science, 2005, , 295-310.	1.3	16
9	Making Abstract Interpretation Incomplete: Modeling the Potency of Obfuscation. Lecture Notes in Computer Science, 2012, , 129-145.	1.3	16
10	Transforming Abstract Interpretations by Abstract Interpretation. Lecture Notes in Computer Science, 2008, , 1-17.	1.3	15
11	Abstract Symbolic Automata. , 2015, , .		14
12	On the RÃ1e of Abstract Non-interference in Language-Based Security. Lecture Notes in Computer Science, 2005, , 418-433.	1.3	14
13	Proving Abstract Non-interference. Lecture Notes in Computer Science, 2004, , 280-294.	1.3	14
14	Modelling declassification policies using abstract domain completeness. Mathematical Structures in Computer Science, 2011, 21, 1253-1299.	0.6	12
15	What You Lose is What You Leak: Information Leakage in Declassification Policies. Electronic Notes in Theoretical Computer Science, 2007, 173, 47-66.	0.9	11
16	Analyzing Dynamic Code. ACM Transactions on Privacy and Security, 2021, 24, 1-38.	3.0	11
17	Abstract Program Slicing: From Theory towards an Implementation. Lecture Notes in Computer Science, 2010, , 452-467.	1.3	11
18	Abstract interpretation-based approaches to Security - A Survey on Abstract Non-Interference and its Challenging Applications. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 129, 41-65.	0.8	11

#	Article	IF	Citations
19	Adjoining classified and unclassified information by abstract interpretation. Journal of Computer Security, 2010, 18, 751-797.	0.8	10
20	Verifying Bounded Subset-Closed Hyperproperties. Lecture Notes in Computer Science, 2018, , 263-283.	1.3	10
21	Static Analysis for ECMAScript String Manipulation Programs. Applied Sciences (Switzerland), 2020, 10, 3525.	2.5	10
22	Static Program Analysis for String Manipulation Languages. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 299, 19-33.	0.8	10
23	Maximal incompleteness as obfuscation potency. Formal Aspects of Computing, 2017, 29, 3-31.	1.8	8
24	Hyperhierarchy of Semantics - A Formal Framework for Hyperproperties Verification. Lecture Notes in Computer Science, 2017, , 232-252.	1.3	8
25	Transforming semantics by abstract interpretation. Theoretical Computer Science, 2005, 337, 1-50.	0.9	7
26	A weakest precondition approach to active attacks analysis. , 2009, , .		7
27	A Proof System for Abstract Non-interference. Journal of Logic and Computation, 2010, 20, 449-479.	0.8	7
28	Abstract Code Injection. Lecture Notes in Computer Science, 2018, , 116-137.	1.3	7
29	Timed Abstract Non-interference. Lecture Notes in Computer Science, 2005, , 289-303.	1.3	7
30	Completeness of Abstract Domains for String Analysis of JavaScript Programs. Lecture Notes in Computer Science, 2019, , 255-272.	1.3	7
31	A Weakest Precondition Approach to Robustness. Lecture Notes in Computer Science, 2010, , 261-297.	1.3	6
32	Making abstract models complete. Mathematical Structures in Computer Science, 2016, 26, 658-701.	0.6	6
33	An abstract interpretation-based model for safety semantics. International Journal of Computer Mathematics, 2011, 88, 665-694.	1.8	4
34	Abstract Symbolic Automata. ACM SIGPLAN Notices, 2015, 50, 329-341.	0.2	4
35	A sound abstract interpreter for dynamic code. , 2020, , .		4
36	Domain Compression for Complete Abstractions. Lecture Notes in Computer Science, 2003, , 146-160.	1.3	4

#	Article	IF	Citations
37	Analyzing program dependencies for malware detection. , 2014, , .		3
38	Characterizing a property-driven obfuscationÂstrategy. Journal of Computer Security, 2017, 26, 31-69.	0.8	3
39	Equational Logic and Categorical Semantics for Multi-Languages. Electronic Notes in Theoretical Computer Science, 2020, 352, 79-103.	0.9	3
40	MIME: A Formal Approach to (Android) Emulation Malware Analysis. Lecture Notes in Computer Science, 2016, , 259-267.	1.3	2
41	Compositionality in the puzzle of semantics. ACM SIGPLAN Notices, 2002, 37, 87-97.	0.2	2
42	Generalized Abstract Non-interference: Abstract Secure Information-Flow Analysis for Automata. Lecture Notes in Computer Science, 2005, , 221-234.	1.3	2
43	Algebraic Power Analysis by Abstract Interpretation. Higher-Order and Symbolic Computation, 2004, 17, 297-345.	0.3	1
44	Weakening Additivity in Adjoining Closures. Order, 2016, 33, 503-516.	0.5	1
45	Improving Dynamic Code Analysis by Code Abstraction. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 341, 17-32.	0.8	1
46	Deriving Bisimulations by Simplifying Partitions. , 2008, , 157-171.		1
47	Verifying opacity by abstract interpretation. , 2022, , .		1
48	Strong Preservation by Model Deformation. , 2012, , .		0