

Agostino Cortesi

List of Publications by Year in descending order

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140
papers

1,248
citations

516215

16
h-index

580395

25
g-index

150
all docs

150
docs citations

150
times ranked

397
citing authors

#	ARTICLE	IF	CITATIONS
1	Type analysis of prolog using type graphs. The Journal of Logic Programming, 1995, 22, 179-209.	1.9	47
2	Optimal groundness analysis using propositional logic. The Journal of Logic Programming, 1996, 27, 137-167.	1.9	45
3	Evaluation of the domain prop. The Journal of Logic Programming, 1995, 23, 237-278.	1.9	42
4	Complementation in abstract interpretation. ACM Transactions on Programming Languages and Systems, 1997, 19, 7-47.	1.7	42
5	Widening and narrowing operators for abstract interpretation. Computer Languages, Systems and Structures, 2011, 37, 24-42.	1.4	35
6	A suite of abstract domains for static analysis of string values. Software - Practice and Experience, 2015, 45, 245-287.	2.5	35
7	Combinations of abstract domains for logic programming. , 1994, , .		34
8	The quotient of an abstract interpretation. Theoretical Computer Science, 1998, 202, 163-192.	0.5	30
9	Static analysis for discovering IoT vulnerabilities. International Journal on Software Tools for Technology Transfer, 2021, 23, 71-88.	1.7	28
10	Combinations of abstract domains for logic programming: open product and generic pattern construction. Science of Computer Programming, 2000, 38, 27-71.	1.5	27
11	Abstract interpretation of database query languages. Computer Languages, Systems and Structures, 2012, 38, 123-157.	1.4	26
12	SAILS. , 2012, , .		25
13	Static Analysis of String Values. Lecture Notes in Computer Science, 2011, , 505-521.	1.0	25
14	A Hierarchical and Abstraction-Based Blockchain Model. Applied Sciences (Switzerland), 2019, 9, 2343.	1.3	22
15	Black Block Recorder: Immutable Black Box Logging for Robots via Blockchain. IEEE Robotics and Automation Letters, 2019, 4, 3812-3819.	3.3	21
16	Static analysis of Android Auto infotainment and on-board diagnostics II apps. Software - Practice and Experience, 2019, 49, 1131-1161.	2.5	21
17	Penetration Testing ROS. Studies in Computational Intelligence, 2020, , 183-225.	0.7	20
18	A Generic Distortion Free Watermarking Technique for Relational Databases. Lecture Notes in Computer Science, 2009, , 252-264.	1.0	19

#	ARTICLE	IF	CITATIONS
19	Sharing is optimal. The Journal of Logic Programming, 1999, 38, 371-386.	1.9	18
20	Vulnerability analysis of Android auto infotainment apps. , 2018, , .		18
21	A Survey on Product Operators in Abstract Interpretation. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 129, 325-336.	0.8	18
22	Widening Operators for Abstract Interpretation. , 2008, , .		17
23	Obfuscation-based analysis of SQL injection attacks. , 2010, , .		17
24	Operational and abstract semantics of the query language G-Log. Theoretical Computer Science, 2002, 275, 521-560.	0.5	16
25	Causality-based Abstraction of Multiplicity in Security Protocols. Computer Security Foundations Workshop (CSFW), Proceedings of the IEEE, 2007, , .	0.0	16
26	Distinctness and Sharing Domains for Static Analysis of Java Programs. Lecture Notes in Computer Science, 2001, , 77-98.	1.0	16
27	Comparison of abstract interpretations. Lecture Notes in Computer Science, 1992, , 521-532.	1.0	16
28	Control Flow Analysis of Mobile Ambients with Security Boundaries. , 2002, , 197-212.		16
29	A Persistent Public Watermarking of Relational Databases. Lecture Notes in Computer Science, 2010, , 216-230.	1.0	16
30	Abstract interpretation of logic programs. , 1991, , .		15
31	Security boundaries in mobile ambients. Computer Languages, Systems and Structures, 2002, 28, 101-127.	1.4	14
32	A calculus of challenges and responses. , 2007, , .		14
33	Sentence Embedding Models for Similarity Detection of Software Requirements. SN Computer Science, 2021, 2, 1.	2.3	14
34	Optimal Space and Time Complexity Analysis on the Lattice of Cuboids Using Galois Connections for Data Warehousing. , 2009, , .		13
35	Datacentric Semantics for Verification of Privacy Policy Compliance by Mobile Applications. Lecture Notes in Computer Science, 2015, , 61-79.	1.0	13
36	Abstract interpretation of logic programs. ACM SIGPLAN Notices, 1991, 26, 52-61.	0.2	11

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37	Quality and impact monitoring for local eGovernment services. Transforming Government: People, Process and Policy, 2012, 6, 112-125.	1.3	10
38	M-String Segmentation: A Refined Abstract Domain for String Analysis in C Programs. , 2018, , .		10
39	Information flow security in Boundary Ambients. Information and Computation, 2008, 206, 460-489.	0.5	9
40	Static analysis techniques for robotics software verification. , 2013, , .		9
41	Information leakage analysis of database query languages. , 2014, , .		9
42	Blockchain Transaction Analysis Using Dominant Sets. Lecture Notes in Computer Science, 2017, , 229-239.	1.0	9
43	Procedurally Provisioned Access Control for Robotic Systems. , 2018, , .		9
44	Network Reconnaissance and Vulnerability Excavation of Secure DDS Systems. , 2019, , .		9
45	Information Leakage Analysis by Abstract Interpretation. Lecture Notes in Computer Science, 2011, , 545-557.	1.0	9
46	A New Scale for Attribute Dependency in Large Database Systems. Lecture Notes in Computer Science, 2012, , 266-277.	1.0	9
47	Directionally continuous selections in Banach spaces. Nonlinear Analysis: Theory, Methods & Applications, 1989, 13, 987-992.	0.6	8
48	Abstract program slicing on dependence condition graphs. Science of Computer Programming, 2013, 78, 1240-1263.	1.5	8
49	Abstract program slicing of database query languages. , 2013, , .		8
50	Privacy Analysis of Android Apps: Implicit Flows and Quantitative Analysis. Lecture Notes in Computer Science, 2015, , 3-23.	1.0	8
51	SROS1: Using and Developing Secure ROS1 Systems. Studies in Computational Intelligence, 2019, , 373-405.	0.7	8
52	HQR-Scheme: A High Quality and resilient virtual primary key generation approach for watermarking relational data. Expert Systems With Applications, 2019, 138, 112770.	4.4	8
53	Extending Abstract Interpretation to Dependency Analysis of Database Applications. IEEE Transactions on Software Engineering, 2020, 46, 463-494.	4.3	8
54	Skyline computation over multiple points and dimensions. Innovations in Systems and Software Engineering, 2021, 17, 141-156.	1.6	8

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55	Static analysis for dummies: experiencing LiSA. , 2021, , .		8
56	Boundary Inference for Enforcing Security Policies in Mobile Ambients. , 2002, , 383-395.		8
57	Distortion-Free Authentication Watermarking.. Communications in Computer and Information Science, 2013, , 205-219.	0.4	8
58	Cross-program taint analysis for IoT systems. , 2020, , .		8
59	Abstract Interpretation-Based Verification of Non-functional Requirements. Lecture Notes in Computer Science, 2005, , 49-62.	1.0	7
60	NFR-aware prioritization of software requirements. Systems Engineering, 2021, 24, 158-176.	1.6	7
61	Completeness of Abstract Domains for String Analysis of JavaScript Programs. Lecture Notes in Computer Science, 2019, , 255-272.	1.0	7
62	Abstract Interpretation of Recursive Queries. Lecture Notes in Computer Science, 2013, , 157-170.	1.0	7
63	Automated verification of Prolog programs. The Journal of Logic Programming, 1999, 39, 3-42.	1.9	6
64	A New Intrusion Prevention System for Protecting Smart Grids from ICMPv6 Vulnerabilities. , 0, , .		6
65	Twinning Automata and Regular Expressions for String Static Analysis. Lecture Notes in Computer Science, 2021, , 267-290.	1.0	6
66	Banana - A Tool for Boundary Ambients Nesting ANALysis. Lecture Notes in Computer Science, 2003, , 437-441.	1.0	6
67	Specification-based automatic verification of Prolog programs. Lecture Notes in Computer Science, 1997, , 38-57.	1.0	6
68	Policy-Based Slicing of Hibernate Query Language. Lecture Notes in Computer Science, 2015, , 267-281.	1.0	6
69	Relational String Abstract Domains. Lecture Notes in Computer Science, 2022, , 20-42.	1.0	6
70	Reducing Multiple Occurrences of Meta-Mark Selection in Relational Data Watermarking. IEEE Access, 2022, 10, 62210-62231.	2.6	6
71	Replaceability and negotiation in a cloud service ecosystem. Journal of Cloud Computing: Advances, Systems and Applications, 2019, 8, .	2.1	5
72	A Double Fragmentation Approach for Improving Virtual Primary Key-Based Watermark Synchronization. IEEE Access, 2020, 8, 61504-61516.	2.6	5

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73	Semantic-driven watermarking of relational textual databases. Expert Systems With Applications, 2021, 167, 114013.	4.4	5
74	String Abstraction for Model Checking of C Programs. Lecture Notes in Computer Science, 2019, , 74-93.	1.0	5
75	Information-Flow Analysis of Hibernate Query Language. Lecture Notes in Computer Science, 2014, , 262-274.	1.0	5
76	Graph properties for normal logic programs. Theoretical Computer Science, 1993, 107, 277-303.	0.5	4
77	Abstract domains for reordering CLP(RLin) programs. The Journal of Logic Programming, 2000, 42, 217-256.	1.9	4
78	Data Leakage Analysis of the Hibernate Query Language on a Propositional Formulae Domain. Lecture Notes in Computer Science, 2016, , 23-44.	1.0	4
79	From CIL to Java bytecode: Semantics-based translation for static analysis leveraging. Science of Computer Programming, 2020, 191, 102392.	1.5	4
80	Semantic Hierarchy Refactoring by Abstract Interpretation. Lecture Notes in Computer Science, 2005, , 313-331.	1.0	4
81	KPI-Supported PDCA Model for Innovation Policy Management in Local Government. Lecture Notes in Computer Science, 2011, , 320-331.	1.0	4
82	Empirical analysis of the impact of queries on watermarked relational databases. Expert Systems With Applications, 2022, 204, 117491.	4.4	4
83	Nesting analysis of mobile ambients. Computer Languages, Systems and Structures, 2004, 30, 207-230.	1.4	3
84	Non-repudiation analysis using LySa with annotations. Computer Languages, Systems and Structures, 2010, 36, 352-377.	1.4	3
85	Combining Symbolic and Numerical Domains for Information Leakage Analysis. Lecture Notes in Computer Science, 2018, , 98-135.	1.0	3
86	Static Analysis of Android Apps Interaction with Automotive CAN. Lecture Notes in Computer Science, 2018, , 114-123.	1.0	3
87	SDLI: Static Detection of Leaks Across Intents. , 2018, , .		3
88	CIL to Java-bytecode translation for static analysis leveraging. , 2018, , .		3
89	Things as a Service: Service model for IoT. , 2019, , .		3
90	Legodroid: A Type-Driven Library for Android and LEGO Mindstorms Interoperability. Sensors, 2020, 20, 1926.	2.1	3

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91	Requirement-oriented risk management for incremental software development. Innovations in Systems and Software Engineering, 2021, 17, 187-204.	1.6	3
92	Geographic location based secure, dynamic and opportunistic RPL for distributed networks. Ad Hoc Networks, 2021, 123, 102689.	3.4	3
93	CARO: A Conflict-Aware Requirement Ordering Tool for DevOps. , 2021, , .		3
94	Information Flow Security in Mobile Ambients1 1Partially supported by MURST Projects "Interpretazione Astratta, Type Systems e Analisi Control-Flow" and "Certificazione automatica di programmi mediante interpretazione astratta". Electronic Notes in Theoretical Computer Science, 2001, 54, 58-68.	0.9	2
95	Information Leakage Detection in Boundary Ambients1 1Partially supported by MIUR Projects "Interpretazione Astratta, Type Systems e Analisi Control-Flow" and "Modelli formali per la sicurezza" and the EU Contract IST-2001-32617 "Models and Types for Security in Mobile Distributed Systems". Electronic Notes in Theoretical Computer Science, 2003, 78, 123-143.	0.9	2
96	Dependence condition graph for semantics-based abstract program slicing. , 2010, , .		2
97	Engaging high school students in computer science via challenging applications. , 2011, , .		2
98	The abstract domain of Trapezoid Step Functions. Computer Languages, Systems and Structures, 2015, 43, 41-68.	1.4	2
99	ROLAP based data warehouse schema to XML schema conversion. , 2016, , .		2
100	A uniform representation of multi-variant data in intensive-query databases. Innovations in Systems and Software Engineering, 2016, 12, 163-176.	1.6	2
101	Construction and distribution of materialized views in Non-binary data space. Innovations in Systems and Software Engineering, 2021, 17, 205-217.	1.6	2
102	Completeness of string analysis for dynamic languages. Information and Computation, 2021, 281, 104791.	0.5	2
103	Verification of Hibernate Query Language by Abstract Interpretation. Lecture Notes in Computer Science, 2015, , 116-128.	1.0	2
104	Materialized View Construction Using Linearizable Nonlinear Regression. Advances in Intelligent Systems and Computing, 2016, , 261-276.	0.5	2
105	Preventing Additive Attacks to Relational Database Watermarking. Lecture Notes in Business Information Processing, 2019, , 131-140.	0.8	2
106	Geographic Location Based Dynamic and Opportunistic RPL for Distributed Networks. Lecture Notes in Computer Science, 2019, , 120-131.	1.0	2
107	A Quantile-Based Watermarking Approach for Distortion Minimization. Lecture Notes in Computer Science, 2022, , 162-176.	1.0	2
108	Type analysis of Prolog using type graphs. ACM SIGPLAN Notices, 1994, 29, 337-348.	0.2	1

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109	Operational Semantics for Reexecution-based Analysis of Logic Programs with Delay Declarations. <i>Electronic Notes in Theoretical Computer Science</i> , 2001, 48, 29-44.	0.9	1
110	Flow-sensitive Leakage Analysis in Mobile Ambients. <i>Electronic Notes in Theoretical Computer Science</i> , 2005, 128, 17-25.	0.9	1
111	Abstract Interpretation and Object-oriented Programming: Quo Vadis?. <i>Electronic Notes in Theoretical Computer Science</i> , 2005, 131, 75-84.	0.9	1
112	Women and Informatics: the Ada Web Portal. <i>Innovations in Teaching and Learning in Information and Computer Sciences</i> , 2009, 8, 64-72.	0.2	1
113	High performance encapsulation in Casanova 2. , 2015, , .		1
114	High performance encapsulation and networking in Casanova 2. <i>Entertainment Computing</i> , 2017, 20, 25-41.	1.8	1
115	WiFi-Related Energy Consumption Analysis of Mobile Devices in a Walkable Area by Abstract Interpretation. <i>Lecture Notes in Computer Science</i> , 2017, , 27-39.	1.0	1
116	Node localization for indoor tracking using artificial neural network. , 2018, , .		1
117	Enhancing Security in ROS. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 3-15.	0.5	1
118	A Patient-Centric Nurse Scheduling Algorithm. <i>SN Computer Science</i> , 2022, 3, 1.	2.3	1
119	Building Game Scripting DSLs™ with the Metacasanova Metacompiler. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2017, , 231-242.	0.2	1
120	Intents Analysis of Android Apps for Confidentiality Leakage Detection. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 43-65.	0.5	1
121	A Wearable System for Jump Detection in Inline Figure Skating. <i>Sensors</i> , 2022, 22, 1650.	2.1	1
122	Families_Share: digital and social innovation for work-life balance. <i>Digital Policy, Regulation and Governance</i> , 2022, 24, 162-178.	1.0	1
123	Static Analysis. <i>Science of Computer Programming</i> , 2003, 47, 89-90.	1.5	0
124	Behind BANANA: Design and Implementation of a Tool for Nesting Analysis of Mobile Ambients. <i>Electronic Notes in Theoretical Computer Science</i> , 2004, 99, 319-337.	0.9	0
125	Metacasanova: an optimized meta-compiler for domain-specific languages. , 2017, , .		0
126	Introduction to special issue on "intelligent computing and adaptive systems". <i>Innovations in Systems and Software Engineering</i> , 2017, 13, 241-242.	1.6	0

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127	Abstracting Strings for Model Checking of C Programs. Applied Sciences (Switzerland), 2020, 10, 7853.	1.3	0
128	Construction of Materialized Views in Non-Binary Data Space. Lecture Notes in Networks and Systems, 2021, , 93-110.	0.5	0
129	Verifiability in Systems and Data Engineering: Preface by the Special Issue Editors. Innovations in Systems and Software Engineering, 2021, 17, 185-186.	1.6	0
130	Reexecution-Based Analysis of Logic Programs with Delay Declarations. Lecture Notes in Computer Science, 2001, , 395-405.	1.0	0
131	Towards an European Certification of Computer Science University Curricula. Innovations in Teaching and Learning in Information and Computer Sciences, 2007, 6, 79-86.	0.2	0
132	Non-repudiation Analysis with LySa. IFIP Advances in Information and Communication Technology, 2009, , 318-329.	0.5	0
133	Observation-Based Fine Grained Access Control for XML Documents. Communications in Computer and Information Science, 2011, , 267-276.	0.4	0
134	KPIs from Web Agents for Policiesâ€™ Impact Analysis and Productsâ€™ Brand Assessment. Communications in Computer and Information Science, 2011, , 192-201.	0.4	0
135	Verification of Non-Functional Requirements by Abstract Interpretation. , 2012, , 22-35.		0
136	The Domain of Parametric Hypercubes for Static Analysis of Computer Games Software. Lecture Notes in Computer Science, 2013, , 447-463.	1.0	0
137	Typing Legacy COBOL Code. Communications in Computer and Information Science, 2013, , 151-165.	0.4	0
138	MySQL Extension Automatic Porting to PDO for PHP Migration and Security Improvement. Lecture Notes in Computer Science, 2018, , 461-473.	1.0	0
139	Type-Driven Cross-Programming for Android and LEGO Mindstorms Interoperability. Lecture Notes in Computer Science, 2019, , 191-209.	1.0	0
140	Institutional Change for Gender Equality in Research Lesson Learned from the Field. , 2019, , .		0