

Agostino Cortesi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

133
papers

859
citations

15
h-index

22
g-index

150
ext. papers

1,004
ext. citations

1.3
avg, IF

4.48
L-index

#	Paper	IF	Citations
133	Relational String Abstract Domains. <i>Lecture Notes in Computer Science</i> , 2022 , 20-42	0.9	1
132	A Patient-Centric Nurse Scheduling Algorithm. <i>SN Computer Science</i> , 2022 , 3, 1	2	1
131	Families_Share: digital and social innovation for work-life balance. <i>Digital Policy, Regulation and Governance</i> , 2022 , 24, 162-178	1.7	
130	Empirical analysis of the impact of queries on watermarked relational databases. <i>Expert Systems With Applications</i> , 2022 , 117491	7.8	
129	A Quantile-Based Watermarking Approach for Distortion Minimization. <i>Lecture Notes in Computer Science</i> , 2022 , 162-176	0.9	
128	Geographic location based secure, dynamic and opportunistic RPL for distributed networks. <i>Ad Hoc Networks</i> , 2021 , 123, 102689	4.8	0
127	Intents Analysis of Android Apps for Confidentiality Leakage Detection. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 43-65	0.4	1
126	Semantic-driven watermarking of relational textual databases. <i>Expert Systems With Applications</i> , 2021 , 167, 114013	7.8	1
125	NFR-aware prioritization of software requirements. <i>Systems Engineering</i> , 2021 , 24, 158-176	1.8	3
124	Construction and distribution of materialized views in Non-binary data space. <i>Innovations in Systems and Software Engineering</i> , 2021 , 17, 205-217	1.1	1
123	Static analysis for dummies: experiencing LiSA 2021 ,		1
122	Requirement-oriented risk management for incremental software development. <i>Innovations in Systems and Software Engineering</i> , 2021 , 17, 187-204	1.1	0
121	Static analysis for discovering IoT vulnerabilities. <i>International Journal on Software Tools for Technology Transfer</i> , 2021 , 23, 71-88	1.3	11
120	Skyline computation over multiple points and dimensions. <i>Innovations in Systems and Software Engineering</i> , 2021 , 17, 141-156	1.1	4
119	Construction of Materialized Views in Non-Binary Data Space. <i>Lecture Notes in Networks and Systems</i> , 2021 , 93-110	0.5	
118	Sentence Embedding Models for Similarity Detection of Software Requirements. <i>SN Computer Science</i> , 2021 , 2, 1	2	4
117	Completeness of string analysis for dynamic languages. <i>Information and Computation</i> , 2021 , 104791	0.8	1

116	Twinning Automata and Regular Expressions for String Static Analysis. <i>Lecture Notes in Computer Science</i> , 2021 , 267-290	0.9	2
115	From CIL to Java bytecode: Semantics-based translation for static analysis leveraging. <i>Science of Computer Programming</i> , 2020 , 191, 102392	1.1	2
114	A Double Fragmentation Approach for Improving Virtual Primary Key-Based Watermark Synchronization. <i>IEEE Access</i> , 2020 , 8, 61504-61516	3.5	1
113	Cross-program taint analysis for IoT systems 2020 ,		2
112	Abstracting Strings for Model Checking of C Programs. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7853	2.6	
111	Extending Abstract Interpretation to Dependency Analysis of Database Applications. <i>IEEE Transactions on Software Engineering</i> , 2020 , 46, 463-494	3.5	5
110	Penetration Testing ROS. <i>Studies in Computational Intelligence</i> , 2020 , 183-225	0.8	6
109	2019 ,		7
108	Enhancing Security in ROS. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 3-15	0.4	
107	Static analysis of Android Auto infotainment and on-board diagnostics II apps. <i>Software - Practice and Experience</i> , 2019 , 49, 1131	2.5	8
106	A Hierarchical and Abstraction-Based Blockchain Model. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2343	2.6	8
105	SROS1: Using and Developing Secure ROS1 Systems. <i>Studies in Computational Intelligence</i> , 2019 , 373-405.	0.8	5
104	Black Block Recorder: Immutable Black Box Logging for Robots via Blockchain. <i>IEEE Robotics and Automation Letters</i> , 2019 , 4, 3812-3819	4.2	5
103	HQR-Scheme: A High Quality and resilient virtual primary key generation approach for watermarking relational data. <i>Expert Systems With Applications</i> , 2019 , 138, 112770	7.8	3
102	Preventing Additive Attacks to Relational Database Watermarking. <i>Lecture Notes in Business Information Processing</i> , 2019 , 131-140	0.6	1
101	Type-Driven Cross-Programming for Android and LEGO Mindstorms Interoperability. <i>Lecture Notes in Computer Science</i> , 2019 , 191-209	0.9	
100	Geographic Location Based Dynamic and Opportunistic RPL for Distributed Networks. <i>Lecture Notes in Computer Science</i> , 2019 , 120-131	0.9	0
99	String Abstraction for Model Checking of C Programs. <i>Lecture Notes in Computer Science</i> , 2019 , 74-93	0.9	4

98	Completeness of Abstract Domains for String Analysis of JavaScript Programs. <i>Lecture Notes in Computer Science</i> , 2019 , 255-272	0.9	4
97	Replaceability and negotiation in a cloud service ecosystem. <i>Journal of Cloud Computing: Advances, Systems and Applications</i> , 2019 , 8,	3.2	2
96	Combining Symbolic and Numerical Domains for Information Leakage Analysis. <i>Lecture Notes in Computer Science</i> , 2018 , 98-135	0.9	2
95	MySQL Extension Automatic Porting to PDO for PHP Migration and Security Improvement. <i>Lecture Notes in Computer Science</i> , 2018 , 461-473	0.9	
94	Procedurally Provisioned Access Control for Robotic Systems 2018 ,		6
93	M-String Segmentation: A Refined Abstract Domain for String Analysis in C Programs 2018 ,		8
92	Static Analysis of Android Apps Interaction with Automotive CAN. <i>Lecture Notes in Computer Science</i> , 2018 , 114-123	0.9	2
91	SDLI: Static Detection of Leaks Across Intents 2018 ,		2
90	Vulnerability analysis of Android auto infotainment apps 2018 ,		8
89	CIL to Java-bytecode translation for static analysis leveraging 2018 ,		1
88	Blockchain Transaction Analysis Using Dominant Sets. <i>Lecture Notes in Computer Science</i> , 2017 , 229-239	0.9	6
87	High performance encapsulation and networking in Casanova 2. <i>Entertainment Computing</i> , 2017 , 20, 25-41	1.9	0
86	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	0.9	0
85	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	
84	ROLAP based data warehouse schema to XML schema conversion 2016 ,		2
83	A uniform representation of multi-variant data in intensive-query databases. <i>Innovations in Systems and Software Engineering</i> , 2016 , 12, 163-176	1.1	1
82	Hyper-lattice Algebraic Model for Data Warehousing. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016 ,	0.4	3
81	Data Leakage Analysis of the Hibernate Query Language on a Propositional Formulae Domain. <i>Lecture Notes in Computer Science</i> , 2016 , 23-44	0.9	4

80	Materialized View Construction Using Linearizable Nonlinear Regression. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 261-276	0.4	1
79	DAPA: Degradation-Aware Privacy Analysis of Android Apps. <i>Lecture Notes in Computer Science</i> , 2016 , 32-46	0.9	4
78	The abstract domain of Trapezoid Step Functions. <i>Computer Languages, Systems and Structures</i> , 2015 , 43, 41-68		2
77	Privacy Analysis of Android Apps: Implicit Flows and Quantitative Analysis. <i>Lecture Notes in Computer Science</i> , 2015 , 3-23	0.9	6
76	A suite of abstract domains for static analysis of string values. <i>Software - Practice and Experience</i> , 2015 , 45, 245-287	2.5	28
75	Casanova: A Simple, High-Performance Language for Game Development. <i>Lecture Notes in Computer Science</i> , 2015 , 123-134	0.9	5
74	Verification of Hibernate Query Language by Abstract Interpretation. <i>Lecture Notes in Computer Science</i> , 2015 , 116-128	0.9	1
73	Policy-Based Slicing of Hibernate Query Language. <i>Lecture Notes in Computer Science</i> , 2015 , 267-281	0.9	6
72	Datacentric Semantics for Verification of Privacy Policy Compliance by Mobile Applications. <i>Lecture Notes in Computer Science</i> , 2015 , 61-79	0.9	13
71	Information leakage analysis of database query languages 2014 ,		9
70	A New Intrusion Prevention System for Protecting Smart Grids from ICMPv6 Vulnerabilities 2014 ,		4
69	Information-Flow Analysis of Hibernate Query Language. <i>Lecture Notes in Computer Science</i> , 2014 , 262-274		5
68	Abstract program slicing on dependence condition graphs. <i>Science of Computer Programming</i> , 2013 , 78, 1240-1263	1.1	7
67	Abstract program slicing of database query languages 2013 ,		7
66	Static analysis techniques for robotics software verification 2013 ,		6
65	Distortion-Free Authentication Watermarking.. <i>Communications in Computer and Information Science</i> , 2013 , 205-219	0.3	4
64	Abstract Interpretation of Recursive Queries. <i>Lecture Notes in Computer Science</i> , 2013 , 157-170	0.9	6
63	The Domain of Parametric Hypercubes for Static Analysis of Computer Games Software. <i>Lecture Notes in Computer Science</i> , 2013 , 447-463	0.9	

62	Typing Legacy COBOL Code. <i>Communications in Computer and Information Science</i> , 2013 , 151-165	0.3	
61	Quality and impact monitoring for local eGovernment services. <i>Transforming Government: People, Process and Policy</i> , 2012 , 6, 112-125	2.3	8
60	Abstract interpretation of database query languages. <i>Computer Languages, Systems and Structures</i> , 2012 , 38, 123-157		21
59	SAILS 2012 ,		23
58	A New Scale for Attribute Dependency in Large Database Systems. <i>Lecture Notes in Computer Science</i> , 2012 , 266-277	0.9	9
57	Linear Approximation of Continuous Systems with Trapezoid Step Functions. <i>Lecture Notes in Computer Science</i> , 2012 , 98-114	0.9	4
56	Verification of Non-Functional Requirements by Abstract Interpretation 2012 , 22-35		
55	Widening and narrowing operators for abstract interpretation. <i>Computer Languages, Systems and Structures</i> , 2011 , 37, 24-42		27
54	Engaging high school students in computer science via challenging applications 2011 ,		1
53	Cooperative Query Answering by Abstract Interpretation. <i>Lecture Notes in Computer Science</i> , 2011 , 284-296		7
52	Information Leakage Analysis by Abstract Interpretation. <i>Lecture Notes in Computer Science</i> , 2011 , 545-557		8
51	Static Analysis of String Values. <i>Lecture Notes in Computer Science</i> , 2011 , 505-521	0.9	18
50	Observation-Based Fine Grained Access Control for XML Documents. <i>Communications in Computer and Information Science</i> , 2011 , 267-276	0.3	
49	KPI-Supported PDCA Model for Innovation Policy Management in Local Government. <i>Lecture Notes in Computer Science</i> , 2011 , 320-331	0.9	2
48	KPIs from Web Agents for Policies Impact Analysis and Products Brand Assessment. <i>Communications in Computer and Information Science</i> , 2011 , 192-201	0.3	
47	Obfuscation-based analysis of SQL injection attacks 2010 ,		13
46	Non-repudiation analysis using LySa with annotations. <i>Computer Languages, Systems and Structures</i> , 2010 , 36, 352-377		3
45	A Persistent Public Watermarking of Relational Databases. <i>Lecture Notes in Computer Science</i> , 2010 , 216-230	2.3	11

44	Optimal Space and Time Complexity Analysis on the Lattice of Cuboids Using Galois Connections for Data Warehousing 2009 ,		10
43	Women and Informatics: the Ada Web Portal. <i>Innovations in Teaching and Learning in Information and Computer Sciences</i> , 2009 , 8, 64-72		1
42	A Generic Distortion Free Watermarking Technique for Relational Databases. <i>Lecture Notes in Computer Science</i> , 2009 , 252-264	0.9	17
41	Non-repudiation Analysis with LySa. <i>IFIP Advances in Information and Communication Technology</i> , 2009 , 318-329	0.5	
40	Information flow security in Boundary Ambients. <i>Information and Computation</i> , 2008 , 206, 460-489	0.8	7
39	Widening Operators for Abstract Interpretation 2008 ,		11
38	A calculus of challenges and responses 2007 ,		9
37	. <i>Computer Security Foundations Workshop (CSFW), Proceedings of the IEEE</i> , 2007 ,		11
36	Towards an European Certification of Computer Science University Curricula. <i>Innovations in Teaching and Learning in Information and Computer Sciences</i> , 2007 , 6, 79-86		
35	Abstract Interpretation-Based Verification of Non-functional Requirements. <i>Lecture Notes in Computer Science</i> , 2005 , 49-62	0.9	7
34	Flow-sensitive Leakage Analysis in Mobile Ambients. <i>Electronic Notes in Theoretical Computer Science</i> , 2005 , 128, 17-25	0.7	1
33	Abstract Interpretation and Object-oriented Programming: Quo Vadis?. <i>Electronic Notes in Theoretical Computer Science</i> , 2005 , 131, 75-84	0.7	0
32	Semantic Hierarchy Refactoring by Abstract Interpretation. <i>Lecture Notes in Computer Science</i> , 2005 , 313-331	0.9	4
31	Nesting analysis of mobile ambients. <i>Computer Languages, Systems and Structures</i> , 2004 , 30, 207-230		2
30	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	0.7	
29	Information Leakage Detection in Boundary Ambients ¹ Partially 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. <i>Electronic Notes in Theoretical Computer Science</i> , 2003 , 78, 123-143	0.7	1
28	Complexity of Nesting Analysis in Mobile Ambients. <i>Lecture Notes in Computer Science</i> , 2003 , 86-101	0.9	0
27	Banana - A Tool for Boundary Ambients Nesting ANALysis. <i>Lecture Notes in Computer Science</i> , 2003 , 437-441		2

26	Operational and abstract semantics of the query language G-Log. <i>Theoretical Computer Science</i> , 2002 , 275, 521-560	1.1	15
25	Security boundaries in mobile ambients. <i>Computer Languages, Systems and Structures</i> , 2002 , 28, 101-127		7
24	Control Flow Analysis of Mobile Ambients with Security Boundaries 2002 , 197-212		13
23	Boundary Inference for Enforcing Security Policies in Mobile Ambients 2002 , 383-395		4
22	Operational Semantics for Reexecution-based Analysis of Logic Programs with Delay Declarations. <i>Electronic Notes in Theoretical Computer Science</i> , 2001 , 48, 29-44	0.7	1
21	Information Flow Security in Mobile Ambients ¹ 1Partially supported by MURST Projects Interpretazione Astratta, Type Systems e Analisi Control-Flow e Certificazione automatica di programmi mediante interpretazione astratta <i>Electronic Notes in Theoretical Computer Science</i> , 2001 , 54, 53-68	0.7	1
20	Reexecution-Based Analysis of Logic Programs with Delay Declarations. <i>Lecture Notes in Computer Science</i> , 2001 , 395-405	0.9	
19	Distinctness and Sharing Domains for Static Analysis of Java Programs. <i>Lecture Notes in Computer Science</i> , 2001 , 77-98	0.9	12
18	Combinations of abstract domains for logic programming: open product and generic pattern construction. <i>Science of Computer Programming</i> , 2000 , 38, 27-71	1.1	24
17	Abstract domains for reordering CLP(RLin) programs. <i>The Journal of Logic Programming</i> , 2000 , 42, 217-256		4
16	Sharing is optimal. <i>The Journal of Logic Programming</i> , 1999 , 38, 371-386		15
15	Automated verification of Prolog programs. <i>The Journal of Logic Programming</i> , 1999 , 39, 3-42		3
14	The quotient of an abstract interpretation. <i>Theoretical Computer Science</i> , 1998 , 202, 163-192	1.1	28
13	Complementation in abstract interpretation. <i>ACM Transactions on Programming Languages and Systems</i> , 1997 , 19, 7-47	1.6	40
12	Specification-based automatic verification of Prolog programs. <i>Lecture Notes in Computer Science</i> , 1997 , 38-57	0.9	5
11	Optimal groundness analysis using propositional logic. <i>The Journal of Logic Programming</i> , 1996 , 27, 137-167		40
10	Type analysis of prolog using type graphs. <i>The Journal of Logic Programming</i> , 1995 , 22, 179-209		37
9	Evaluation of the domain prop. <i>The Journal of Logic Programming</i> , 1995 , 23, 237-278		37

8	Type analysis of Prolog using type graphs. <i>ACM SIGPLAN Notices</i> , 1994 , 29, 337-348	0.2	1
7	Combinations of abstract domains for logic programming 1994 ,		25
6	Graph properties for normal logic programs. <i>Theoretical Computer Science</i> , 1993 , 107, 277-303	1.1	4
5	Comparison of abstract interpretations. <i>Lecture Notes in Computer Science</i> , 1992 , 521-532	0.9	8
4	Abstract interpretation of logic programs. <i>ACM SIGPLAN Notices</i> , 1991 , 26, 52-61	0.2	9
3	Abstract interpretation of logic programs 1991 ,		12
2	Directionally continuous selections in Banach spaces. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1989 , 13, 987-992	1.3	6
1	A Survey on Product Operators in Abstract Interpretation. <i>Electronic Proceedings in Theoretical Computer Science</i> , <i>EPTCS</i> ,129, 325-336		14