

Antonella Santone

List of Publications by Year in descending order

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Version: 2024-02-01

118
papers

2,379
citations

218592

26
h-index

254106

43
g-index

118
all docs

118
docs citations

118
times ranked

1763
citing authors

#	ARTICLE	IF	CITATIONS
1	Explainable Deep Learning for Pulmonary Disease and Coronavirus COVID-19 Detection from X-rays. Computer Methods and Programs in Biomedicine, 2020, 196, 105608.	2.6	429
2	Diabetes Mellitus Affected Patients Classification and Diagnosis through Machine Learning Techniques. Procedia Computer Science, 2017, 112, 2519-2528.	1.2	92
3	An ensemble learning approach for brain cancer detection exploiting radiomic features. Computer Methods and Programs in Biomedicine, 2020, 185, 105134.	2.6	92
4	Human behavior characterization for driving style recognition in vehicle system. Computers and Electrical Engineering, 2020, 83, 102504.	3.0	74
5	Car hacking identification through fuzzy logic algorithms. , 2017, , .		71
6	Deep learning for image-based mobile malware detection. Journal of Computer Virology and Hacking Techniques, 2020, 16, 157-171.	1.6	66
7	Ransomware Steals Your Phone. Formal Methods Rescue It. Lecture Notes in Computer Science, 2016, , 212-221.	1.0	63
8	Selective Mu-Calculus and Formula-Based Equivalence of Transition Systems. Journal of Computer and System Sciences, 1999, 59, 537-556.	0.9	56
9	Radiomic features for prostate cancer grade detection through formal verification. Radiologia Medica, 2021, 126, 688-697.	4.7	54
10	Machine learning for coronavirus covid-19 detection from chest x-rays. Procedia Computer Science, 2020, 176, 2212-2221.	1.2	53
11	Towards an interpretable deep learning model for mobile malware detection and family identification. Computers and Security, 2021, 105, 102198.	4.0	50
12	Talos: no more ransomware victims with formal methods. International Journal of Information Security, 2018, 17, 719-738.	2.3	48
13	De novo reconstruction of gene regulatory networks from time series data, an approach based on formal methods. Methods, 2014, 69, 298-305.	1.9	44
14	A "pay-how-you-drive" car insurance approach through cluster analysis. Soft Computing, 2019, 23, 2863-2875.	2.1	44
15	LEILA: Formal Tool for Identifying Mobile Malicious Behaviour. IEEE Transactions on Software Engineering, 2019, 45, 1230-1252.	4.3	43
16	Transfer learning for mobile real-time face mask detection and localization. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 1548-1554.	2.2	38
17	Formal methods for prostate cancer Gleason score and treatment prediction using radiomic biomarkers. Magnetic Resonance Imaging, 2020, 66, 165-175.	1.0	37
18	Visualizing the outcome of dynamic analysis of Android malware with VizMal. Journal of Information Security and Applications, 2020, 50, 102423.	1.8	37

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19	Deep learning for heart disease detection through cardiac sounds. <i>Procedia Computer Science</i> , 2020, 176, 2202-2211.	1.2	37
20	Ransomware Inside Out. , 2016, , .		35
21	Abstract reduction in directed model checking CCS processes. <i>Acta Informatica</i> , 2012, 49, 313-341.	0.5	32
22	Model checking for malicious family detection and phylogenetic analysis in mobile environment. <i>Computers and Security</i> , 2020, 90, 101691.	4.0	32
23	Early Diagnosis of Liver Metastases from Colorectal Cancer through CT Radiomics and Formal Methods: A Pilot Study. <i>Journal of Clinical Medicine</i> , 2022, 11, 31.	1.0	32
24	Radiomics for Gleason Score Detection through Deep Learning. <i>Sensors</i> , 2020, 20, 5411.	2.1	31
25	CAN-Bus Attack Detection With Deep Learning. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021, 22, 5081-5090.	4.7	31
26	DELFIN+: An efficient deadlock detection tool for CCS processes. <i>Journal of Computer and System Sciences</i> , 2006, 72, 1397-1412.	0.9	29
27	Heuristic search for equivalence checking. <i>Software and Systems Modeling</i> , 2016, 15, 513-530.	2.2	29
28	FABNet: Fusion Attention Block and Transfer Learning for Laryngeal Cancer Tumor Grading in P63 IHC Histopathology Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 1696-1707.	3.9	29
29	Identification of Android Malware Families with Model Checking. , 2016, , .		29
30	Automatic verification of concurrent systems using a formula-based compositional approach. <i>Acta Informatica</i> , 2002, 38, 531-564.	0.5	27
31	Incremental construction of systems: An efficient characterization of the lacking sub-system. <i>Science of Computer Programming</i> , 2013, 78, 1346-1367.	1.5	26
32	Download malware? no, thanks. , 2016, , .		26
33	Reduced Models for Efficient CCS Verification. <i>Formal Methods in System Design</i> , 2005, 26, 319-350.	0.9	25
34	Hey Malware, I Can Find You!. , 2016, , .		25
35	Evaluating model checking for cyber threats code obfuscation identification. <i>Journal of Parallel and Distributed Computing</i> , 2018, 119, 203-218.	2.7	23
36	Using heuristic search for finding deadlocks in concurrent systems. <i>Information and Computation</i> , 2005, 202, 191-226.	0.5	21

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37	Prostate Gleason Score Detection and Cancer Treatment Through Real-Time Formal Verification. IEEE Access, 2019, 7, 186236-186246.	2.6	21
38	LPCANet: Classification of Laryngeal Cancer Histopathological Images Using a CNN with Position Attention and Channel Attention Mechanisms. Interdisciplinary Sciences, Computational Life Sciences, 2021, 13, 666-682.	2.2	21
39	Automatic PI-RADS assignment by means of formal methods. Radiologia Medica, 2022, 127, 83-89.	4.7	21
40	DECAB-LSTM: Deep Contextualized Attentional Bidirectional LSTM for cancer hallmark classification. Knowledge-Based Systems, 2020, 210, 106486.	4.0	20
41	A Blockchain Based Proposal for Protecting Healthcare Systems through Formal Methods. Procedia Computer Science, 2019, 159, 1787-1794.	1.2	17
42	State space reduction by non-standard semantics for deadlock analysis. Science of Computer Programming, 1998, 30, 309-338.	1.5	16
43	Formal Methods Meet Mobile Code Obfuscation Identification of Code Reordering Technique. , 2017, , .		15
44	Anomaly detection in substation networks. Journal of Information Security and Applications, 2020, 54, 102527.	1.8	15
45	A Neural Network-Based Method for Respiratory Sound Analysis and Lung Disease Detection. Applied Sciences (Switzerland), 2022, 12, 3877.	1.3	15
46	Energy Consumption Metrics for Mobile Device Dynamic Malware Detection. Procedia Computer Science, 2019, 159, 1045-1052.	1.2	14
47	Model checking and machine learning techniques for HummingBad mobile malware detection and mitigation. Simulation Modelling Practice and Theory, 2020, 105, 102169.	2.2	14
48	Whoâ€™s Driving My Car? A Machine Learning based Approach to Driver Identification. , 2018, , .		14
49	LORETO: a tool for reducing state explosion in verification of LOTOS programs. Software - Practice and Experience, 1999, 29, 1123-1147.	2.5	13
50	Model Checking Techniques Applied to Satellite Operational Mode Management. IEEE Systems Journal, 2019, 13, 1018-1029.	2.9	13
51	Model Checking for Mobile Android Malware Evolution. , 2017, , .		11
52	Radiomic Features for Medical Images Tamper Detection by Equivalence Checking. Procedia Computer Science, 2019, 159, 1795-1802.	1.2	11
53	Model Checking Multithreaded Programs by Means of Reduced Models. Electronic Notes in Theoretical Computer Science, 2004, 110, 55-74.	0.9	10
54	Formal Verification of Concurrent Systems via Directed Model Checking. Electronic Notes in Theoretical Computer Science, 2007, 185, 93-105.	0.9	9

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55	On the Adoption of Radiomics and Formal Methods for COVID-19 Coronavirus Diagnosis. <i>Diagnostics</i> , 2021, 11, 293.	1.3	9
56	A novel approach based on formal methods for clone detection. , 2012, , .		8
57	Call Graph and Model Checking for Fine-Grained Android Malicious Behaviour Detection. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7975.	1.3	8
58	Audio signal processing for Android malware detection and family identification. <i>Journal of Computer Virology and Hacking Techniques</i> , 2021, 17, 139-152.	1.6	8
59	Detection of Malicious Software by Analyzing Distinct Artifacts Using Machine Learning and Deep Learning Algorithms. <i>Electronics (Switzerland)</i> , 2021, 10, 1694.	1.8	8
60	CD-Form: A clone detector based on formal methods. <i>Science of Computer Programming</i> , 2014, 95, 390-405.	1.5	7
61	Machine Learning for Driver Detection through CAN bus. , 2020, , .		7
62	Neural Networks for Driver Behavior Analysis. <i>Electronics (Switzerland)</i> , 2021, 10, 342.	1.8	7
63	Efficient model checking of properties of a distributed application: a multimedia case study. <i>Software Testing Verification and Reliability</i> , 2002, 12, 3-21.	1.7	6
64	A user-friendly interface to specify temporal properties of concurrent systems. <i>Information Sciences</i> , 2007, 177, 299-311.	4.0	6
65	Probabilistic model checking applied to autonomous spacecraft reconfiguration. , 2016, , .		6
66	Exploiting Model Checking for Mobile Botnet Detection. <i>Procedia Computer Science</i> , 2019, 159, 963-972.	1.2	6
67	Android Collusion: Detecting Malicious Applications Inter-Communication through SharedPreferences. <i>Information (Switzerland)</i> , 2020, 11, 304.	1.7	6
68	A Method for Automatic Penetration Testing and Mitigation: A Red Hat Approach. <i>Procedia Computer Science</i> , 2021, 192, 2039-2046.	1.2	6
69	Towards the Use of Generative Adversarial Neural Networks to Attack Online Resources. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 890-901.	0.5	6
70	A transformation system for concurrent processes. <i>Acta Informatica</i> , 1998, 35, 1037-1073.	0.5	5
71	Detecting Colluding Inter-App Communication in Mobile Environment. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8351.	1.3	5
72	Formal Equivalence Checking for Mobile Malware Detection and Family Classification. <i>IEEE Transactions on Software Engineering</i> , 2022, 48, 2643-2657.	4.3	5

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73	A Formal Methodology for Notational Analysis and Real-Time Decision Support in Sport Environment. , 2018, , .		4
74	Real-Time Driver Behaviour Characterization Through Rule-Based Machine Learning. Lecture Notes in Computer Science, 2018, , 374-386.	1.0	4
75	Model Checking for Data Anomaly Detection. Procedia Computer Science, 2019, 159, 1277-1286.	1.2	4
76	Driver Identification Through Formal Methods. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5625-5637.	4.7	4
77	Model Checking Based Approach for Compliance Checking. Information Technology and Control, 2019, 48, 278-298.	1.1	4
78	ASI-DBNet: An Adaptive Sparse Interactive ResNet-Vision Transformer Dual-Branch Network for the Grading of Brain Cancer Histopathological Images. Interdisciplinary Sciences, Computational Life Sciences, 0, , .	2.2	4
79	Abstract interpretation of trace semantics for concurrent calculi. Information Processing Letters, 1999, 70, 69-78.	0.4	3
80	Infer gene regulatory networks from time series data with formal methods. , 2013, , .		3
81	Measuring Mobile Applications Quality and Security in Higher Education. , 2018, , .		3
82	BPM perspectives to support ICSs: Exploiting the integration of formal verifications into investment service provision processes. Industrial Management and Data Systems, 2020, 120, 1383-1400.	2.2	3
83	Exploiting Supervised Machine Learning for Driver Detection in a Real-World Environment. Procedia Computer Science, 2021, 192, 2440-2449.	1.2	3
84	Android Collusion Detection by means of Audio Signal Analysis with Machine Learning techniques. Procedia Computer Science, 2021, 192, 2340-2346.	1.2	3
85	Colluding Android Apps Detection via Model Checking. Advances in Intelligent Systems and Computing, 2020, , 776-786.	0.5	3
86	A novel methodology for head and neck carcinoma treatment stage detection by means of model checking. Artificial Intelligence in Medicine, 2022, 127, 102263.	3.8	3
87	Towards a logical semantics for pure Prolog. Science of Computer Programming, 1998, 32, 145-176.	1.5	2
88	Syntactic reductions for efficient deadlock analysis. Software Testing Verification and Reliability, 2002, 12, 173-186.	1.7	2
89	A tool supporting efficient model checking of concurrent specifications. Microprocessors and Microsystems, 2002, 25, 401-407.	1.8	2
90	Formula-based abstractions and symbolic execution for model checking programs. Microprocessors and Microsystems, 2004, 28, 69-76.	1.8	2

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91	Dunuen: A User-Friendly Formal Verification Tool. <i>Procedia Computer Science</i> , 2019, 159, 1431-1438.	1.2	2
92	Formal Modeling for Magnetic Resonance Images Tamper Mitigation. <i>Procedia Computer Science</i> , 2019, 159, 1803-1810.	1.2	2
93	Protected pointers to specify access privileges in distributed systems. <i>Journal of Parallel and Distributed Computing</i> , 2019, 126, 1-12.	2.7	2
94	Colluding Covert Channel for Malicious Information Exfiltration in Android Environment. , 2021, , .		2
95	Predicting Probability of Default Under IFRS 9 Through Data Mining Techniques. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 959-969.	0.5	2
96	2Faces: a new model of malware based on dynamic compiling and reflection. <i>Journal of Computer Virology and Hacking Techniques</i> , 2022, 18, 215-230.	1.6	2
97	Explainability of radiomics through formal methods. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 220, 106824.	2.6	2
98	A FORMULA-DRIVEN MODULAR ATTACK ON STATE EXPLOSION. <i>International Journal of Foundations of Computer Science</i> , 2002, 13, 719-731.	0.8	1
99	Modifying LOTOS Specifications by Means of Automatable Formula-Based Integrations. <i>Journal of Automated Reasoning</i> , 2003, 30, 33-58.	1.1	1
100	Model Checking Properties on Reduced Trace Systems. <i>Algorithms</i> , 2014, 7, 339-362.	1.2	1
101	Twinkle twinkle little DroidDream, How I wonder what you are?. , 2017, , .		1
102	Thermal Ablation Treatment Detection by means of Machine Learning. , 2021, , .		1
103	Detecting Call Indirection Obfuscation through Equivalence Checking in Android environment. <i>Procedia Computer Science</i> , 2021, 192, 1659-1669.	1.2	1
104	Code Reordering Obfuscation Technique Detection by Means of Weak Bisimulation. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 1368-1382.	0.5	1
105	Vulnerability Evaluation of Android Malware Detectors against Adversarial Examples. <i>Procedia Computer Science</i> , 2021, 192, 3320-3331.	1.2	1
106	Mobile Family Detection through Audio Signals Classification. , 2021, , .		1
107	Model Checking for Real-Time Attack Detection in Water Distribution Systems. <i>Informatics and Automation</i> , 2022, 21, 219-242.	0.6	1
108	Logic Based Abstractions of Real-Time Systems. <i>Formal Methods in System Design</i> , 2000, 17, 201-220.	0.9	0

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109	Reusing LOTOS specifications. <i>Microprocessors and Microsystems</i> , 2001, 25, 309-314.	1.8	0
110	Compositionality and locality for improving model checking in the selective mu-calculus. <i>Science of Computer Programming</i> , 2005, 54, 291-311.	1.5	0
111	A local approach for temporal model checking of Java bytecode. <i>Journal of Computer and System Sciences</i> , 2005, 70, 258-281.	0.9	0
112	Modular formal verification of specifications of concurrent systems. <i>Software Testing Verification and Reliability</i> , 2008, 18, 5-28.	1.7	0
113	Malware and Formal Methods. , 2017, , .		0
114	Special issue on formal methods for security engineering. <i>Journal of Computer Virology and Hacking Techniques</i> , 2018, 14, 251-251.	1.6	0
115	Extended pointers for memory protection in single address space systems. <i>Computers and Electrical Engineering</i> , 2020, 82, 106551.	3.0	0
116	Mobile Family Detection through Audio Signals Classification. , 2021, , .		0
117	A Methodology based on Formal Methods for Thermal Ablation Area Detection. , 2021, , .		0
118	Automated Intention Mining with Comparatively Fine-tuning BERT. , 2021, , .		0