Antonella Santone

List of Publications by Year
in descending order

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Version: 2024-02-01

118	2,379	218592	254106
papers	citations	26 h-index	43 g-index

118	118	118	1763
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Driver Identification Through Formal Methods. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5625-5637.	4.7	4
2	Formal Equivalence Checking for Mobile Malware Detection and Family Classification. IEEE Transactions on Software Engineering, 2022, 48, 2643-2657.	4.3	5
3	FABNet: Fusion Attention Block and Transfer Learning for Laryngeal Cancer Tumor Grading in P63 IHC Histopathology Images. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1696-1707.	3.9	29
4	Automatic PI-RADS assignment by means of formal methods. Radiologia Medica, 2022, 127, 83-89.	4.7	21
5	2Faces: a new model of malware based on dynamic compiling and reflection. Journal of Computer Virology and Hacking Techniques, 2022, 18, 215-230.	1.6	2
6	Model Checking for Real-Time Attack Detection in Water Distribution Systems. Informatics and Automation, 2022, 21, 219-242.	0.6	1
7	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
8	Early Diagnosis of Liver Metastases from Colorectal Cancer through CT Radiomics and Formal Methods: A Pilot Study. Journal of Clinical Medicine, 2022, 11, 31.	1.0	32
9	Explainability of radiomics through formal methods. Computer Methods and Programs in Biomedicine, 2022, 220, 106824.	2.6	2
10	A Neural Network-Based Method for Respiratory Sound Analysis and Lung Disease Detection. Applied Sciences (Switzerland), 2022, 12, 3877.	1.3	15
11	Mobile Family Detection through Audio Signals Classification. , 2021, , .		0
12	Radiomic features for prostate cancer grade detection through formal verification. Radiologia Medica, 2021, 126, 688-697.	4.7	54
13	Audio signal processing for Android malware detection and family identification. Journal of Computer Virology and Hacking Techniques, 2021, 17, 139-152.	1.6	8
14	A Methodology based on Formal Methods for Thermal Ablation Area Detection. , 2021, , .		0
15	Colluding Covert Channel for Malicious Information Exfiltration in Android Environment. , 2021, , .		2
16	On the Adoption of Radiomics and Formal Methods for COVID-19 Coronavirus Diagnosis. Diagnostics, 2021, 11, 293.	1.3	9
17	Neural Networks for Driver Behavior Analysis. Electronics (Switzerland), 2021, 10, 342.	1.8	7
18	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

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19	Towards an interpretable deep learning model for mobile malware detection and family identification. Computers and Security, 2021, 105, 102198.	4.0	50
20	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
21	Detection of Malicious Software by Analyzing Distinct Artifacts Using Machine Learning and Deep Learning Algorithms. Electronics (Switzerland), 2021, 10, 1694.	1.8	8
22	Thermal Ablation Treatment Detection by means of Machine Learning. , 2021, , .		1
23	CAN-Bus Attack Detection With Deep Learning. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5081-5090.	4.7	31
24	Exploiting Supervised Machine Learning for Driver Detection in a Real-World Environment. Procedia Computer Science, 2021, 192, 2440-2449.	1.2	3
25	Detecting Call Indirection Obfuscation through Equivalence Checking in Android environment. Procedia Computer Science, 2021, 192, 1659-1669.	1.2	1
26	Android Collusion Detection by means of Audio Signal Analysis with Machine Learning techniques. Procedia Computer Science, 2021, 192, 2340-2346.	1.2	3
27	A Method for Automatic Penetration Testing and Mitigation: A Red Hat Approach. Procedia Computer Science, 2021, 192, 2039-2046.	1.2	6
28	Vulnerability Evaluation of Android Malware Detectors against Adversarial Examples. Procedia Computer Science, 2021, 192, 3320-3331.	1.2	1
29	Mobile Family Detection through Audio Signals Classification. , 2021, , .		1
30	Automated Intention Mining with Comparatively Fine-tuning BERT. , 2021, , .		0
31	Human behavior characterization for driving style recognition in vehicle system. Computers and Electrical Engineering, 2020, 83, 102504.	3.0	74
32	An ensemble learning approach for brain cancer detection exploiting radiomic features. Computer Methods and Programs in Biomedicine, 2020, 185, 105134.	2.6	92
33	Formal methods for prostate cancer Gleason score and treatment prediction using radiomic biomarkers. Magnetic Resonance Imaging, 2020, 66, 165-175.	1.0	37
34	Model checking for malicious family detection and phylogenetic analysis in mobile environment. Computers and Security, 2020, 90, 101691.	4.0	32
35	Visualizing the outcome of dynamic analysis of Android malware with VizMal. Journal of Information Security and Applications, 2020, 50, 102423.	1.8	37
36	Anomaly detection in substation networks. Journal of Information Security and Applications, 2020, 54, 102527.	1.8	15

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37	Model checking and machine learning techniques for HummingBad mobile malware detection and mitigation. Simulation Modelling Practice and Theory, 2020, 105, 102169.	2.2	14
38	Radiomics for Gleason Score Detection through Deep Learning. Sensors, 2020, 20, 5411.	2.1	31
39	DECAB-LSTM: Deep Contextualized Attentional Bidirectional LSTM for cancer hallmark classification. Knowledge-Based Systems, 2020, 210, 106486.	4.0	20
40	Deep learning for heart disease detection through cardiac sounds. Procedia Computer Science, 2020, 176, 2202-2211.	1.2	37
41	Machine learning for coronavirus covid-19 detection from chest x-rays. Procedia Computer Science, 2020, 176, 2212-2221.	1.2	53
42	Call Graph and Model Checking for Fine-Grained Android Malicious Behaviour Detection. Applied Sciences (Switzerland), 2020, 10, 7975.	1.3	8
43	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
44	Detecting Colluding Inter-App Communication in Mobile Environment. Applied Sciences (Switzerland), 2020, 10, 8351.	1.3	5
45	Extended pointers for memory protection in single address space systems. Computers and Electrical Engineering, 2020, 82, 106551.	3.0	0
46	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
47	Android Collusion: Detecting Malicious Applications Inter-Communication through SharedPreferences. Information (Switzerland), 2020, 11, 304.	1.7	6
48	Machine Learning for Driver Detection through CAN bus. , 2020, , .		7
49	Deep learning for image-based mobile malware detection. Journal of Computer Virology and Hacking Techniques, 2020, 16, 157-171.	1.6	66
50	Towards the Use of Generative Adversarial Neural Networks to Attack Online Resources. Advances in Intelligent Systems and Computing, 2020, , 890-901.	0.5	6
51	Code Reordering Obfuscation Technique Detection by Means of Weak Bisimulation. Advances in Intelligent Systems and Computing, 2020, , 1368-1382.	0.5	1
52	Colluding Android Apps Detection via Model Checking. Advances in Intelligent Systems and Computing, 2020, , 776-786.	0.5	3
53	Predicting Probability of Default Under IFRS 9 Through Data Mining Techniques. Advances in Intelligent Systems and Computing, 2020, , 959-969.	0.5	2
54	A â€œpay-how-you-driveâ€•car insurance approach through cluster analysis. Soft Computing, 2019, 23, 2863-2875.	2.1	44

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55	LEILA: Formal Tool for Identifying Mobile Malicious Behaviour. IEEE Transactions on Software Engineering, 2019, 45, 1230-1252.	4.3	43
56	Exploiting Model Checking for Mobile Botnet Detection. Procedia Computer Science, 2019, 159, 963-972.	1.2	6
57	Model Checking for Data Anomaly Detection. Procedia Computer Science, 2019, 159, 1277-1286.	1.2	4
58	Dunuen: A User-Friendly Formal Verification Tool. Procedia Computer Science, 2019, 159, 1431-1438.	1.2	2
59	A Blockchain Based Proposal for Protecting Healthcare Systems through Formal Methods. Procedia Computer Science, 2019, 159, 1787-1794.	1.2	17
60	Radiomic Features for Medical Images Tamper Detection by Equivalence Checking. Procedia Computer Science, 2019, 159, 1795-1802.	1.2	11
61	Formal Modeling for Magnetic Resonance Images Tamper Mitigation. Procedia Computer Science, 2019, 159, 1803-1810.	1.2	2
62	Energy Consumption Metrics for Mobile Device Dynamic Malware Detection. Procedia Computer Science, 2019, 159, 1045-1052.	1.2	14
63	Prostate Gleason Score Detection and Cancer Treatment Through Real-Time Formal Verification. IEEE Access, 2019, 7, 186236-186246.	2.6	21
64	Protected pointers to specify access privileges in distributed systems. Journal of Parallel and Distributed Computing, 2019, 126, 1-12.	2.7	2
65	Model Checking Techniques Applied to Satellite Operational Mode Management. IEEE Systems Journal, 2019, 13, 1018-1029.	2.9	13
66	Model Checking Based Approach for Compliance Checking. Information Technology and Control, 2019, 48, 278-298.	1.1	4
67	Talos: no more ransomware victims with formal methods. International Journal of Information Security, 2018, 17, 719-738.	2.3	48
68	A Formal Methodology for Notational Analysis and Real-Time Decision Support in Sport Environment. , 2018, , .		4
69	Measuring Mobile Applications Quality and Security in Higher Education. , 2018, , .		3
70	Real-Time Driver Behaviour Characterization Through Rule-Based Machine Learning. Lecture Notes in Computer Science, 2018, , 374-386.	1.0	4
71	Special issue on formal methods for security engineering. Journal of Computer Virology and Hacking Techniques, 2018, 14, 251-251.	1.6	0
72	Evaluating model checking for cyber threats code obfuscation identification. Journal of Parallel and Distributed Computing, 2018, 119, 203-218.	2.7	23

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73	Whoâ€™s Driving My Car? A Machine Learning based Approach to Driver Identification. , 2018, , .		14
74	Car hacking identification through fuzzy logic algorithms. , 2017, , .		71
75	Malware and Formal Methods. , 2017, , .		0
76	Twinkle twinkle little DroidDream, How I wonder what you are?. , 2017, , .		1
77	Diabetes Mellitus Affected Patients Classification and Diagnosis through Machine Learning Techniques. Procedia Computer Science, 2017, 112, 2519-2528.	1.2	92
78	Model Checking for Mobile Android Malware Evolution. , 2017, , .		11
79	Formal Methods Meet Mobile Code Obfuscation Identification of Code Reordering Technique. , 2017, , .		15
80	Heuristic search for equivalence checking. Software and Systems Modeling, 2016, 15, 513-530.	2.2	29
81	Ransomware Inside Out. , 2016, , .		35
82	Probabilistic model checking applied to autonomous spacecraft reconfiguration. , 2016, , .		6
83	Hey Malware, I Can Find You!. , 2016, , .		25
84	Download malware? no, thanks. , 2016, , .		26
85	Ransomware Steals Your Phone. Formal Methods Rescue It. Lecture Notes in Computer Science, 2016, , 212-221.	1.0	63
86	Identification of Android Malware Families with Model Checking. , 2016, , .		29
87	Model Checking Properties on Reduced Trace Systems. Algorithms, 2014, 7, 339-362.	1.2	1
88	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
89	CD-Form: A clone detector based on formal methods. Science of Computer Programming, 2014, 95, 390-405.	1.5	7
90	Incremental construction of systems: An efficient characterization of the lacking sub-system. Science of Computer Programming, 2013, 78, 1346-1367.	1.5	26

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91	Infer gene regulatory networks from time series data with formal methods. , 2013, , .		3
92	A novel approach based on formal methods for clone detection. , 2012, , .		8
93	Abstract reduction in directed model checking CCS processes. Acta Informatica, 2012, 49, 313-341.	0.5	32
94	Modular formal verification of specifications of concurrent systems. Software Testing Verification and Reliability, 2008, 18, 5-28.	1.7	0
95	A user-friendly interface to specify temporal properties of concurrent systems. Information Sciences, 2007, 177, 299-311.	4.0	6
96	Formal Verification of Concurrent Systems via Directed Model Checking. Electronic Notes in Theoretical Computer Science, 2007, 185, 93-105.	0.9	9
97	DELFIN+: An efficient deadlock detection tool for CCS processes. Journal of Computer and System Sciences, 2006, 72, 1397-1412.	0.9	29
98	Compositionality and locality for improving model checking in the selective mu-calculus. Science of Computer Programming, 2005, 54, 291-311.	1.5	0
99	A local approach for temporal model checking of Java bytecode. Journal of Computer and System Sciences, 2005, 70, 258-281.	0.9	0
100	Using heuristic search for finding deadlocks in concurrent systems. Information and Computation, 2005, 202, 191-226.	0.5	21
101	Reduced Models for Efficient CCS Verification. Formal Methods in System Design, 2005, 26, 319-350.	0.9	25
102	Formula-based abstractions and symbolic execution for model checking programs. Microprocessors and Microsystems, 2004, 28, 69-76.	1.8	2
103	Model Checking Multithreaded Programs by Means of Reduced Models. Electronic Notes in Theoretical Computer Science, 2004, 110, 55-74.	0.9	10
104	Modifying LOTOS Specifications by Means of Automatable Formula-Based Integrations. Journal of Automated Reasoning, 2003, 30, 33-58.	1.1	1
105	A FORMULA-DRIVEN MODULAR ATTACK ON STATE EXPLOSION. International Journal of Foundations of Computer Science, 2002, 13, 719-731.	0.8	1
106	Automatic verification of concurrent systems using a formula-based compositional approach. Acta Informatica, 2002, 38, 531-564.	0.5	27
107	Efficient model checking of properties of a distributed application: a multimedia case study. Software Testing Verification and Reliability, 2002, 12, 3-21.	1.7	6
108	Syntactic reductions for efficient deadlock analysis. Software Testing Verification and Reliability, 2002, 12, 173-186.	1.7	2

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109	A tool supporting efficient model checking of concurrent specifications. Microprocessors and Microsystems, 2002, 25, 401-407.	1.8	2
110	Reusing LOTOS specifications. Microprocessors and Microsystems, 2001, 25, 309-314.	1.8	0
111	Logic Based Abstractions of Real-Time Systems. Formal Methods in System Design, 2000, 17, 201-220.	0.9	0
112	Abstract interpretation of trace semantics for concurrent calculi. Information Processing Letters, 1999, 70, 69-78.	0.4	3
113	Selective Mu-Calculus and Formula-Based Equivalence of Transition Systems. Journal of Computer and System Sciences, 1999, 59, 537-556.	0.9	56
114	LORETO: a tool for reducing state explosion in verification of LOTOS programs. Software - Practice and Experience, 1999, 29, 1123-1147.	2.5	13
115	A transformation system for concurrent processes. Acta Informatica, 1998, 35, 1037-1073.	0.5	5
116	State space reduction by non-standard semantics for deadlock analysis. Science of Computer Programming, 1998, 30, 309-338.	1.5	16
117	Towards a logical semantics for pure Prolog. Science of Computer Programming, 1998, 32, 145-176.	1.5	2
118	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