Angelos Stavrou

List of Publications by Year
in descending order

120 papers	4,093 citations	430442 18 h-index	182168 51 g-index
126 all docs	126 docs citations	126 times ranked	3120 citing authors

#	Article	IF	Citations
1	DDoS in the IoT: Mirai and Other Botnets. Computer, 2017, 50, 80-84.	1.2	1,251
2	Intrusion Detection in 802.11 Networks: Empirical Evaluation of Threats and a Public Dataset. IEEE Communications Surveys and Tutorials, 2016, 18, 184-208.	24.8	353
3	Malicious PDF detection using metadata and structural features. , 2012, , .		153
4	The Mirai botnet and the IoT Zombie Armies. , 2017, , .		129
5	Casting out Demons: Sanitizing Training Data for Anomaly Sensors. Sp'97, 2008, , .	0.0	110
6	Using graphic turing tests to counter automated DDoS attacks against web servers. , 2003, , .		104
7	Learning Internet-of-Things Security "Hands-On". IEEE Security and Privacy, 2016, 14, 37-46.	1.5	103
8	A moving target DDoS defense mechanism. Computer Communications, 2014, 46, 10-21.	3.1	99
9	Catch Me If You Can: A Cloud-Enabled DDoS Defense. , 2014, , .		81
10	MOTAG: Moving Target Defense against Internet Denial of Service Attacks. , 2013, , .		79
11	HyperCheck: A Hardware-Assisted Integrity Monitor. Lecture Notes in Computer Science, 2010, , 158-177.	1.0	77
12	SQLProb. , 2009, , .		64
13	On the infeasibility of modeling polymorphic shellcode. , 2007, , .		62
14	Mobile Application and Device Power Usage Measurements. , 2012, , .		54
15	SPECTRE: A dependable introspection framework via System Management Mode. , 2013, , .		53
16	Universal Multi-Factor Authentication Using Graphical Passwords. , 2008, , .		52
17	Countering DoS attacks with stateless multipath overlays. , 2005, , .		51
18	A whitebox approach for automated security testing of Android applications on the cloud. , 2012, , .		51

#	ARTICLE	IF	CITATIONS
19	A Study of Malcode-Bearing Documents. Lecture Notes in Computer Science, 2007, , 231-250.	1.0	49
20	E-commerce Reputation Manipulation. , 2015, , .		47
21	Using Hardware Features for Increased Debugging Transparency. , 2015, , .		46
22	A Lightweight, Robust P2P System to Handle Flash Crowds. IEEE Journal on Selected Areas in Communications, 2004, 22, 6-17.	9.7	45
23	WebSOS: an overlay-based system for protecting web servers from denial of service attacks. Computer Networks, 2005, 48, 781-807.	3.2	44
24	Analysis of Android Applications' Permissions. , 2012, , .		37
25	DoubleGuard: Detecting Intrusions in Multitier Web Applications. IEEE Transactions on Dependable and Secure Computing, 2012, 9, 512-525.	3.7	36
26	Detecting Malicious Javascript in PDF through Document Instrumentation. , 2014, , .		36
27	A lightweight, robust P2P system to handle flash crowds. , 0, , .		33
28	HyperCheck: A Hardware-AssistedIntegrity Monitor. IEEE Transactions on Dependable and Secure Computing, 2014, 11, 332-344.	3.7	33
29	Continuous Authentication on Mobile Devices Using Power Consumption, Touch Gestures and Physical Movement of Users. Lecture Notes in Computer Science, 2015, , 405-424.	1.0	33
30	PAR: Payment for Anonymous Routing. Lecture Notes in Computer Science, 2008, , 219-236.	1.0	29
31	Implementing and Optimizing an Encryption Filesystem on Android. , 2012, , .		24
32	Behavioral Analysis of Android Applications Using Automated Instrumentation. , 2013, , .		24
33	Traffic Analysis against Low-Latency Anonymity Networks Using Available Bandwidth Estimation. Lecture Notes in Computer Science, 2010, , 249-267.	1.0	23
34	Exploiting smart-phone USB connectivity for fun and profit. , 2010, , .		22
35	A Framework to Secure Peripherals at Runtime. Lecture Notes in Computer Science, 2014, , 219-238.	1.0	22
36	Adaptive Anomaly Detection via Self-calibration and Dynamic Updating. Lecture Notes in Computer Science, 2009, , 41-60.	1.0	21

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37	The MEERKATS Cloud Security Architecture. , 2012, , .		20
38	Deny-by-Default Distributed Security Policy Enforcement in Mobile Ad Hoc Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 41-50.	0.2	20
39	On the infeasibility of modeling polymorphic shellcode. Machine Learning, 2010, 81, 179-205.	3.4	19
40	Firmware-assisted Memory Acquisition and Analysis tools for Digital Forensics. , 2011, , .		19
41	Click Fraud Detection on the Advertiser Side. Lecture Notes in Computer Science, 2014, , 419-438.	1.0	18
42	Cross-Domain Collaborative Anomaly Detection: So Far Yet So Close. Lecture Notes in Computer Science, 2011, , 142-160.	1.0	17
43	Identifying Proxy Nodes in a Tor Anonymization Circuit. , 2008, , .		16
44	On the DNS Deployment of Modern Web Services. , 2015, , .		15
45	Advancing Open Science with Version Control and Blockchains. , 2017, , .		15
46	PyTrigger: A System to Trigger &amp;amp; Extract User-Activated Malware Behavior. , 2013, , .		14
47	Providing Usersâ€™ Anonymity in Mobile Hybrid Networks. ACM Transactions on Internet Technology, 2013, 12, 1-33.	3.0	14
48	The ephemeral legion. Communications of the ACM, 2011, 54, 129-131.	3.3	13
49	Evaluating a collaborative defense architecture for MANETs. , 2009, , .		12
50	Forced-Path Execution for Android Applications on x86 Platforms. , 2013, , .		12
51	21 Years of Distributed Denial-of Service: Current State of Affairs. Computer, 2020, 53, 88-92.	1.2	12
52	Privacy Preservation over Untrusted Mobile Networks. Lecture Notes in Computer Science, 2009, , 84-105.	1.0	12
53	Efficiently tracking application interactions using lightweight virtualization. , 2008, , .		12
54	A lightweight, robust P2P system to handle flash crowds. Computer Communication Review, 2002, 32, 17-17.	1.5	11

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55	Exposing Security Risks for Commercial Mobile Devices. Lecture Notes in Computer Science, 2012, , 3-21.	1.0	11
56	Breaking BLE Beacons For Fun But Mostly Profit. , 2017, , .		11
57	Cybersecurity Leadership: Competencies, Governance, and Technologies for Industrial Control Systems. Journal of Interconnection Networks, 2017, 17, 1740001.	0.6	11
58	21 Years of Distributed Denial-of-Service: A Call to Action. Computer, 2020, 53, 94-99.	1.2	11
59	Microservices made attack-resilient using unsupervised service fissioning. , 2020, , .		11
60	TrustLogin. , 2015, , .		10
61	A Framework for Automated Security Testing of Android Applications on the Cloud. , 2012, , .		9
62	An Empirical Investigation of Ecommerce-Reputation-Escalation-as-a-Service. ACM Transactions on the Web, 2017, 11, 1-35.	2.0	9
63	HIDEINSIDE — A novel randomized & encrypted antiforensic information hiding. , 2013, , .		8
64	Securely Making "Things" Right. Computer, 2015, 48, 84-88.	1.2	8
65	Towards Transparent Debugging. IEEE Transactions on Dependable and Secure Computing, 2018, 15, 321-335.	3.7	8
66	CapMan: Capability-Based Defense against Multi-Path Denial of Service (DoS) Attacks in MANET. , 2011, , .		7
67	Providing Mobile Usersâ€™ Anonymity in Hybrid Networks. Lecture Notes in Computer Science, 2010, , 540-557.	1.0	7
68	A dependability analysis of hardware-assisted polling integrity checking systems. , 2012, , .		6
69	Exposing software security and availability risks for commercial mobile devices. , 2013, , .		6
70	Keep your friends close. , 2009, , .		5
71	Predicting Network Response Times Using Social Information. , 2011, , .		5
72	Attestation &amp; Authentication for USB Communications. , 2012, , .		5

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73	Capability-Based Defenses Against DoS Attacks in Multi-path MANET Communications. Wireless Personal Communications, 2013, 73, 127-148.	1.8	5
74	Targeted DoS on android: how to disable android in 10 seconds or less. , 2015, , .		5
75	On the Move: Evading Distributed Denial-of-Service Attacks. Computer, 2016, 49, 104-107.	1.2	5
76	On early detection of application-level resource exhaustion and starvation. Journal of Systems and Software, 2018, 137, 430-447.	3.3	5
77	Detecting and Characterizing Web Bot Traffic in a Large E-commerce Marketplace. Lecture Notes in Computer Science, 2018, , 143-163.	1.0	5
78	A Pay-per-Use DoS Protection Mechanism for the Web. Lecture Notes in Computer Science, 2004, , 120-134.	1.0	5
79	Adding Trust to P2P Distribution of Paid Content. Lecture Notes in Computer Science, 2009, , 459-474.	1.0	5
80	Activity Spoofing and Its Defense in Android Smartphones. Lecture Notes in Computer Science, 2014, , 494-512.	1.0	5
81	Mediated overlay services (MOSES): Network security as a composable service. , 2007, , .		4
82	A Virtualization Architecture for In-Depth Kernel Isolation. , 2010, , .		4
83	Advantages and Disadvantages of Remote Asynchronous Usability Testing Using Amazon Mechanical Turk. Proceedings of the Human Factors and Ergonomics Society, 2011, 55, 1080-1084.	0.2	4
84	Building Security into Off-the-Shelf Smartphones. Computer, 2012, 45, 82-84.	1.2	4
85	Dazed Droids. , 2018, , .		4
86	Radmin: Early Detection of Application-Level Resource Exhaustion and Starvation Attacks. Lecture Notes in Computer Science, 2015, , 515-537.	1.0	4
87	Preventing Exploits in Microsoft Office Documents Through Content Randomization. Lecture Notes in Computer Science, 2015, , 225-246.	1.0	4
88	The MINESTRONE Architecture Combining Static and Dynamic Analysis Techniques for Software Security. , 2011, , .		3
89	Hardware-Assisted Application Integrity Monitor. , 2012, , .		3
90	Preliminary study of fission defenses against low-volume DoS attacks on proxied multiserver systems. , 2017, , .		3

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91	Resilient and Scalable Cloned App Detection Using Forced Execution and Compression Trees. , 2018, , .		3
92	Understanding the Security Implication of Aborting Virtual Machine Live Migration. IEEE Transactions on Cloud Computing, 2022, 10, 1275-1286.	3.1	3
93	NetGator: Malware Detection Using Program Interactive Challenges. Lecture Notes in Computer Science, 2013, , 164-183.	1.0	3
94	Content distribution for seamless transmission. Performance Evaluation Review, 2004, 32, 31-32.	0.4	2
95	The dynamic community of interest and its realization in ZODIAC. , 2009, 47, 40-47.		2
96	Experimental results of cross-site exchange of web content Anomaly Detector alerts. , 2010, , .		2
97	QoP and QoS Policy Cognizant Module Composition. , 2010, , .		2
98	Improving network response times using social information. Social Network Analysis and Mining, 2013, 3, 209-220.	1.9	2
99	Analysis of content copyright infringement in mobile application markets. , 2015, , .		2
100	Improving traditional Android MDMs with non-traditional means. , 2016, , .		2
101	Moving-Target Defense Against Botnet Reconnaissance and an Adversarial Coupon-Collection Model. , 2018, , .		2
102	W3Bcrypt: Encryption as a Stylesheet. Lecture Notes in Computer Science, 2006, , 349-364.	1.0	2
103	Programming on Android: Best Practices for Security and Reliability. , 2013, , .		1
104	An adversarial coupon-collector model of asynchronous moving-target defense against botnet reconnaissance*. , 2018, , .		1
105	CloudSkulk: A Nested Virtual Machine Based Rootkit and Its Detection. , 2021, , .		1
106	gore: Routing-Assisted Defense Against DDoS Attacks. Lecture Notes in Computer Science, 2005, , 179-193.	1.0	1
107	transAD: An Anomaly Detection Network Intrusion Sensor for the Web. Lecture Notes in Computer Science, 2014, , 477-489.	1.0	1
108	Pushback for Overlay Networks: Protecting Against Malicious Insiders. Lecture Notes in Computer Science, 2008, , 39-54.	1.0	1

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109	A2M: Access-Assured Mobile Desktop Computing. Lecture Notes in Computer Science, 2009, , 186-201.	1.0	1
110	Switchwall: Automated Topology Fingerprinting and Behavior Deviation Identification. Lecture Notes in Computer Science, 2013, , 161-176.	1.0	1
111	Overlay-Based DoS Defenses. , 2011, , 891-897.		1
112	Bridging the Network Reservation Gap Using Overlays. , 2007, , .		0
113	The Hidden Difficulties of Watching and Rebuilding Networks. IEEE Security and Privacy, 2008, 6, 79-82.	1.5	0
114	A security architecture for information assurance and availability in MANETs. , 2008, , .		0
115	Trading Elephants for Ants: Efficient Post-attack Reconstitution. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 460-469.	0.2	0
116	FROST. , 2017, , .		0
117	Return Value Predictability Profiles for Selfâ€"healing. Lecture Notes in Computer Science, 2008, , 152-166.	1.0	0
118	An Adversarial Evaluation of Network Signaling and Control Mechanisms. Lecture Notes in Computer Science, 2011, , 252-265.	1.0	0
119	Specifying Time-Out Points in Surgical EMRsâ€"Work in Progress. Communications in Computer and Information Science, 2011, , 165-174.	0.4	0
120	Small World VoIP. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 137-155.	0.2	0