Sotiris Ioannidis

List of Publications by Year
in descending order

68 papers	2,400 citations	471061 17 h-index	315357 38 g-index
68 all docs	68 docs citations	68 times ranked	1983 citing authors

#	Article	IF	Citations
1	A New Wireless Communication Paradigm through Software-Controlled Metasurfaces. IEEE Communications Magazine, 2018, 56, 162-169.	4.9	799
2	Gnort: High Performance Network Intrusion Detection Using Graphics Processors. Lecture Notes in Computer Science, 2008, , 116-134.	1.0	208
3	Toward Intelligent Metasurfaces: The Progress from Globally Tunable Metasurfaces to Software‐Defined Metasurfaces with an Embedded Network of Controllers. Advanced Optical Materials, 2020, 8, 2000783.	3.6	145
4	A survey of Twitter research: Data model, graph structure, sentiment analysis and attacks. Expert Systems With Applications, 2021, 164, 114006.	4.4	113
5	Design and Development of Software Defined Metamaterials for Nanonetworks. IEEE Circuits and Systems Magazine, 2015, 15, 12-25.	2.6	84
6	Review of Security and Privacy for the Internet of Medical Things (IoMT). , 2019, , .		83
7	A novel communication paradigm for high capacity and security via programmable indoor wireless environments in next generation wireless systems. Ad Hoc Networks, 2019, 87, 1-16.	3.4	80
8	Realizing Wireless Communication Through Software-Defined HyperSurface Environments. , 2018, , .		70
9	Computing and Communications for the Software-Defined Metamaterial Paradigm: A Context Analysis. IEEE Access, 2017, 5, 6225-6235.	2.6	62
10	Detecting social network profile cloning. , 2011, , .		57
11	A Survey on Encrypted Network Traffic Analysis Applications, Techniques, and Countermeasures. ACM Computing Surveys, 2022, 54, 1-35.	16.1	57
12	On the Network-Layer Modeling and Configuration of Programmable Wireless Environments. IEEE/ACM Transactions on Networking, 2019, 27, 1696-1713.	2.6	41
13	Exploration of Intercell Wireless Millimeter-Wave Communication in the Landscape of Intelligent Metasurfaces. IEEE Access, 2019, 7, 122931-122948.	2.6	41
14	An Interpretable Neural Network for Configuring Programmable Wireless Environments. , 2019, , .		41
15	A fine-grained social network recommender system. Social Network Analysis and Mining, 2020, 10, 1.	1.9	39
16	Decentralized access control in distributed file systems. ACM Computing Surveys, 2008, 40, 1-30.	16.1	32
17	Social media analysis during political turbulence. PLoS ONE, 2017, 12, e0186836.	1.1	31
18	Modern Aspects of Cyber-Security Training and Continuous Adaptation of Programmes to Trainees. Applied Sciences (Switzerland), 2020, 10, 5702.	1.3	25

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19	GPU-assisted malware. International Journal of Information Security, 2015, 14, 289-297.	2.3	23
20	Botnet Attack Detection at the IoT Edge Based on Sparse Representation. , 2019, , .		21
21	End-to-End Wireless Path Deployment With Intelligent Surfaces Using Interpretable Neural Networks. IEEE Transactions on Communications, 2020, 68, 6792-6806.	4.9	21
22	Joint Compressed Sensing and Manipulation of Wireless Emissions with Intelligent Surfaces. , 2019, , .		19
23	Network Topology Effects on the Detectability of Crossfire Attacks. IEEE Transactions on Information Forensics and Security, 2018, 13, 1682-1695.	4.5	17
24	Efficient Software Packet Processing on Heterogeneous and Asymmetric Hardware Architectures. IEEE/ACM Transactions on Networking, 2017, 25, 1593-1606.	2.6	16
25	GPU-assisted malware. , 2010, , .		15
26	Software-Defined Reconfigurable Intelligent Surfaces: From Theory to End-to-End Implementation. Proceedings of the IEEE, 2022, 110, 1466-1493.	16.4	15
27	Efficient software packet processing on heterogeneous and asymmetric hardware architectures. , 2014, , .		14
28	Acceleration of Intrusion Detection in Encrypted Network Traffic Using Heterogeneous Hardware. Sensors, 2021, 21, 1140.	2.1	14
29	Exploiting abused trending topics to identify spam campaigns in Twitter. Social Network Analysis and Mining, 2016, 6, 1.	1.9	13
30	MobileTrust. ACM Transactions on Cyber-Physical Systems, 2020, 4, 1-25.	1.9	13
31	HoneyLab: Large-Scale Honeypot Deployment and Resource Sharing. , 2009, , .		12
32	Open Packet Monitoring on FLAME: Safety, Performance, and Applications. Lecture Notes in Computer Science, 2002, , 120-131.	1.0	12
33	A novel protocol for network-controlled metasurfaces. , 2017, , .		12
34	IRILD: An Information Retrieval Based Method for Information Leak Detection. , 2011, , .		10
35	The Green Blockchains of Circular Economy. Electronics (Switzerland), 2021, 10, 2008.	1.8	10
36	Towards a Collection of Security and Privacy Patterns. Applied Sciences (Switzerland), 2021, 11, 1396.	1.3	9

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37	On using network RAM as a non€volatile buffer. Cluster Computing, 1999, 2, 295-303.	3.5	7
38	Utilizing the average node degree to assess the temporal growth rate of Twitter. Social Network Analysis and Mining, 2018, 8, 1.	1.9	7
39	CYRA: A Model-Driven CYber Range Assurance Platform. Applied Sciences (Switzerland), 2021, 11, 5165.	1.3	7
40	CRAUL: Compiler and Run-Time Integration for Adaptation under Load. Scientific Programming, 1999, 7, 261-273.	0.5	6
41	Security and privacy architectures for biomedical cloud computing. , 2010, , .		6
42	The CE-IoT Framework for Green ICT Organizations: The interplay of CE-IoT as an enabler for green innovation and e-waste management in ICT. , 2019, , .		6
43	Pattern-Driven Security, Privacy, Dependability and Interoperability Management of IoT Environments. , 2019, , .		6
44	SPD-Safe: Secure Administration of Railway Intelligent Transportation Systems. Electronics (Switzerland), 2021, 10, 92.	1.8	6
45	The THREAT-ARREST Cyber Range Platform. , 2021, , .		6
46	On the Use of Programmable Metasurfaces in Vehicular Networks. , 2021, , .		6
47	Performance Evaluation of Privacy-Preserving Policy Reconciliation Protocols. , 2007, , .		5
48	Artificial Intelligence-Driven Composition and Security Validation of an Internet of Things Ecosystem. Applied Sciences (Switzerland), 2020, 10, 4862.	1.3	5
49	Head(er)Hunter: Fast Intrusion Detection using Packet Metadata Signatures. , 2020, , .		5
50	Multilevel Visualization Using Enhanced Social Network Analysis with Smartphone Data. International Journal of Digital Crime and Forensics, 2013, 5, 34-54.	0.5	5
51	Realizing Ambient Backscatter Communications with Intelligent Surfaces in 6G Wireless Systems. IEEE Wireless Communications, 2022, 29, 178-185.	6.6	5
52	Evaluation of Compression of Remote Network Monitoring Data Streams. , 2008, , .		4
53	Pythia: Scheduling of Concurrent Network Packet Processing Applications on Heterogeneous Devices. , 2020, , .		4
54	Advanced Physical-layer Security as an App in Programmable Wireless Environments. , 2020, , .		4

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55	Next Generation Connected Materials for Intelligent Energy Propagation in Multiphysics Systems. IEEE Communications Magazine, 2021, 59, 100-106.	4.9	4
56	The Million Dollar Handshake: Secure and Attested Communications in the Cloud. , 2020, , .		4
57	Outsourcing Malicious Infrastructure to the Cloud. , 2011, , .		3
58	Discovery and Classification of Twitter Bots. SN Computer Science, 2022, 3, .	2.3	3
59	COVERAGE: detecting and reacting to worm epidemics using cooperation and validation. International Journal of Information Security, 2007, 6, 361-378.	2.3	2
60	CAPTCHuring Automated (Smart) Phone Attacks. , 2011, , .		2
61	Cyber Insurance of Information Systems: Security and Privacy Cyber Insurance Contracts for ICT and Helathcare Organizations. , 2019, , .		2
62	Scheduling of multiple network packet processing applications using Pythia. Computer Networks, 2022, , 109006.	3.2	2
63	Motivation Effect of Social Media Posts about Well-being and Healthy Living. , 2016, , .		1
64	Towards Model-Driven Application Security across Clouds. , 2018, , .		1
65	Secure Semantic Interoperability for IoT Applications with Linked Data. , 2019, , .		1
66	CIRCE: Architectural Patterns for Circular and Trustworthy By-Design IoT Orchestrations. Frontiers in Sustainability, 2022, 3, .	1.3	1
67	When AppMon Met Stager. , 2008, , .		0
68	The Diversification and Enhancement of an IDS Scheme for the Cybersecurity Needs of Modern Supply Chains. Electronics (Switzerland), 2022, 11, 1944.	1.8	0