Nicholas Kolokotronis

List of Publications by Year
in descending order

71 papers	736 citations	933447 10 h-index	839539 18 g-index
71 all docs	71 docs citations	71 times ranked	472 citing authors

#	Article	IF	Citations
1	User-Generated Pseudonyms Through Merkle Trees. Lecture Notes in Computer Science, 2021, , 89-105.	1.3	0
2	Attack Graph Generation. , 2021, , 281-334.		2
3	On the Design of IoT Security: Analysis of Software Vulnerabilities for Smart Grids. Energies, 2021, 14, 2818.	3.1	10
4	On the suitability of blockchain platforms for IoT applications: Architectures, security, privacy, and performance. Computer Networks, 2021, 191, 108005.	5.1	46
5	Intrusion Detection using Network Traffic Profiling and Machine Learning for IoT. , 2021, , .		12
6	CHAINGE: A Blockchain Solution to Automate Payment Detail Updates to Subscription Services. , 2021, , .		0
7	Cyber-Range Federation and Cyber-Security Games: A Gamification Scoring Model. , 2021, , .		5
8	Cyber-Security Training Evaluation Metrics. , 2021, , .		1
9	Insider Threat Detection using Deep Autoencoder and Variational Autoencoder Neural Networks. , 2021, , .		9
10	Understanding and Mitigating Banking Trojans: From Zeus to Emotet. , 2021, , .		8
11	Cyber-Trust: Meeting the Needs of Information Sharing Between ISPs and LEAs. Security Informatics and Law Enforcement, 2021, , 73-95.	0.4	0
12	Optimal Cooperative Strategies for PHY Security Maximization Subject to SNR Constraints. IEEE Access, 2020, 8, 119312-119323.	4.2	3
13	On the Security of Permissioned Blockchain Solutions for IoT Applications. , 2020, , .		4
14	IoT Malware Network Traffic Classification using Visual Representation and Deep Learning. , 2020, , .		48
15	A Comparative Analysis of Cyber-Threat Intelligence Sources, Formats and Languages. Electronics (Switzerland), 2020, 9, 824.	3.1	43
16	Digital forensics cloud log unification: Implementing CADF in Apache CloudStack. Journal of Information Security and Applications, 2020, 54, 102555.	2.5	3
17	A Trust Management System for the IoT domain. , 2020, , .		6
18	Advanced metering infrastructures. , 2020, , .		5

#	Article	IF	Citations
19	A Case Study of Intra-library Privacy Issues on Android GPS Navigation Apps. Communications in Computer and Information Science, 2020, , 34-48.	0.5	2
20	Intrusion Detection Systems for Smart Home IoT Devices: Experimental Comparison Study. Communications in Computer and Information Science, 2020, , 87-98.	0.5	7
21	Threat landscape for smart grid systems. , 2020, , .		10
22	Privacy Issues in Voice Assistant Ecosystems. , 2020, , .		10
23	2nd IEEE Services Workshop on Cyber Security and Resilience in the Internet of Things (CSRIoT 2020). , 2020, , .		0
24	On the Security and Privacy of Hyperledger Fabric: Challenges and Open Issues. , 2020, , .		36
25	The Error Linear Complexity Spectrum as a Cryptographic Criterion of Boolean Functions. IEEE Transactions on Information Theory, 2019, 65, 8345-8356.	2.4	1
26	A Novel Malware Detection System Based on Machine Learning and Binary Visualization. , 2019, , .		24
27	A Novel Online Incremental Learning Intrusion Prevention System. , 2019, , .		33
28	Blockchain Solutions for Forensic Evidence Preservation in IoT Environments. , 2019, , .		51
29	Data Protection by Design for cybersecurity systems in a Smart Home environment. , 2019, , .		4
30	IoT Vulnerability Data Crawling and Analysis. , 2019, , .		9
31	On Blockchain Architectures for Trust-Based Collaborative Intrusion Detection. , 2019, , .		28
32	Secured by Blockchain: Safeguarding Internet of Things Devices. IEEE Consumer Electronics Magazine, 2019, 8, 28-34.	2.3	43
33	Malware Squid: A Novel IoT Malware Traffic Analysis Framework Using Convolutional Neural Network and Binary Visualisation. Lecture Notes in Computer Science, 2019, , 65-76.	1.3	20
34	Secure Information Sharing in Adversarial Adaptive Diffusion Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 111-124.	2.8	9
35	Boolean functions with maximum algebraic immunity: further extensions of the Carletâ€"Feng construction. Designs, Codes, and Cryptography, 2018, 86, 1685-1706.	1.6	3
36	WiP: A Novel Blockchain-Based Trust Model for Cloud Identity Management. , 2018, , .		30

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37	WiP: Are Cracked Applications Really Free? An Empirical Analysis on Android Devices. , 2018, , .		3
38	De Bruijn Sequences and Suffix Arrays: Analysis and Constructions. Springer Optimization and Its Applications, 2018, , 297-316.	0.9	1
39	Trust-based strategies for wireless networks under partial monitoring. , 2017, , .		1
40	Improving physical layer security in DF relay networks via two-stage cooperative jamming. , 2016, , .		6
41	Using trust to mitigate malicious and selfish behavior of autonomous agents in CRNs. , 2016, , .		2
42	Boolean Functions with Maximum Algebraic Immunity Based on Properties of Punctured Reedâ€"Muller Codes. Lecture Notes in Computer Science, 2016, , 3-16.	1.3	0
43	Secretly Pruned Convolutional Codes: Security Analysis and Performance Results. IEEE Transactions on Information Forensics and Security, 2016, 11, 1500-1514.	6.9	2
44	Managing trust in diffusion adaptive networks with malicious agents. , 2015, , .		3
45	Secure encoder designs based on turbo codes. , 2015, , .		4
46	A cooperative jamming protocol for physical layer security in wireless networks. , 2015, , .		5
47	Short paper. , 2014, , .		3
48	Cooperation for secure wireless communications with resource-bounded eavesdroppers. , 2014, , .		5
49	Secondary constructions of Boolean functions with maximum algebraic immunity. Cryptography and Communications, 2013, 5, 179-199.	1.4	5
50	Physical layer security via secret trellis pruning. , 2013, , .		5
51	Constructing Boolean functions in odd number of variables with maximum algebraic immunity. , 2011, , .		2
52	Fast decoding of regular LDPC codes using greedy approximation algorithms. , 2011, , .		0
53	Properties of the Error Linear Complexity Spectrum. IEEE Transactions on Information Theory, 2009, 55, 4681-4686.	2.4	20
54	Best Affine and Quadratic Approximations of Particular Classes of Boolean Functions. IEEE Transactions on Information Theory, 2009, 55, 5211-5222.	2.4	8

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55	Factorization of determinants over finite fields and application in stream ciphers. Cryptography and Communications, 2009, 1, 175-205.	1.4	2
56	Cryptographic properties of nonlinear pseudorandom number generators. Designs, Codes, and Cryptography, 2008, 46, 353-363.	1.6	7
57	On the Linear Complexity of Sequences Obtained by State Space Generators. IEEE Transactions on Information Theory, 2008, 54, 1786-1793.	2.4	8
58	On symplectic matrices of cubic Boolean forms and connections with second order nonlinearity. , 2008, , .		0
59	On the error linear complexity profiles of binary sequences of period 2^n. , 2008, , .		1
60	Improved Bounds on the Linear Complexity of Keystreams Obtained by Filter Generators. Lecture Notes in Computer Science, 2008, , 246-255.	1.3	0
61	Best Affine Approximations of Boolean Functions and Applications to Low Order Approximations. , 2007, , .		2
62	On the Nonlinear Complexity and Lempel–Ziv Complexity of Finite Length Sequences. IEEE Transactions on Information Theory, 2007, 53, 4293-4302.	2.4	30
63	Efficient Computation of the Best Quadratic Approximations of Cubic Boolean Functions. , 2007, , 73-91.		2
64	Cryptographic Properties of Stream Ciphers Based on T-functions. , 2006, , .		4
65	New Results on the Linear Complexity of Binary Sequences. , 2006, , .		4
66	Nonlinear Complexity of Binary Sequences and Connections with Lempel-Ziv Compression. Lecture Notes in Computer Science, 2006, , 168-179.	1.3	6
67	Lower Bounds on Sequence Complexity Via Generalised Vandermonde Determinants. Lecture Notes in Computer Science, 2006, , 271-284.	1.3	10
68	On the generation of sequences simulating higher order white noise for system identification. Signal Processing, 2004, 84, 833-852.	3.7	3
69	On the linear complexity of nonlinearly filtered pn-sequences. IEEE Transactions on Information Theory, 2003, 49, 3047-3059.	2.4	23
70	Minimum linear span approximation of binary sequences. IEEE Transactions on Information Theory, 2002, 48, 2758-2764.	2.4	13
71	Wavelet-based medical image compression. Future Generation Computer Systems, 1999, 15, 223-243.	7.5	21