

Saman Zonouz

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,486
citations

706676

14
h-index

620720

26
g-index

56
all docs

56
docs citations

56
times ranked

1671
citing authors

#	ARTICLE	IF	CITATIONS
1	Don't Just BYOD, Bring-Your-Own-App Too! Protection via Virtual Micro Security Perimeters. IEEE Transactions on Mobile Computing, 2022, 21, 76-92.	3.9	1
2	Generalized Contingency Analysis Based on Graph Theory and Line Outage Distribution Factor. IEEE Systems Journal, 2022, 16, 626-636.	2.9	16
3	Cyberattack Defense With Cyber-Physical Alert and Control Logic in Industrial Controllers. IEEE Transactions on Industry Applications, 2022, 58, 5921-5934.	3.3	5
4	CollabLoc: Privacy-Preserving Multi-Modal Collaborative Mobile Phone Localization. IEEE Transactions on Mobile Computing, 2021, 20, 104-116.	3.9	10
5	Strategy for distributed controller defence: Leveraging controller roles and control support groups to maintain or regain control in cyber-adversarial power systems. IET Cyber-Physical Systems: Theory and Applications, 2021, 6, 80-92.	1.9	1
6	Cyber-Physical component ranking for risk sensitivity analysis using betweenness centrality. IET Cyber-Physical Systems: Theory and Applications, 2021, 6, 139-150.	1.9	12
7	Man-in-the-middle attacks and defence in a power system cyber-physical testbed. IET Cyber-Physical Systems: Theory and Applications, 2021, 6, 164-177.	1.9	46
8	Design and evaluation of a cyber-physical testbed for improving attack resilience of power systems. IET Cyber-Physical Systems: Theory and Applications, 2021, 6, 208-227.	1.9	17
9	Multi-Source Multi-Domain Data Fusion for Cyberattack Detection in Power Systems. IEEE Access, 2021, 9, 119118-119138.	2.6	32
10	A Practical Side-Channel Based Intrusion Detection System for Additive Manufacturing Systems. , 2021, , .		1
11	Hybrid Firmware Analysis for Known Mobile and IoT Security Vulnerabilities. , 2020, , .		17
12	Measuring and Enhancing Microgrid Resiliency Against Cyber Threats. IEEE Transactions on Industry Applications, 2019, 55, 6303-6312.	3.3	43
13	Tell Me More Than Just Assembly! Reversing Cyber-Physical Execution Semantics of Embedded IoT Controller Software Binaries. , 2019, , .		10
14	HCContext: Smartphone Context Inference via Sequential History-based Collaborative Filtering. , 2019, , .		9
15	Side-Channel-Based Code-Execution Monitoring Systems: A Survey. IEEE Signal Processing Magazine, 2019, 36, 22-35.	4.6	10
16	Contactless Monitoring of Critical Infrastructure [From the Guest Editors]. IEEE Signal Processing Magazine, 2019, 36, 19-21.	4.6	4
17	Cyber-Physical Resilience: Definition and Assessment Metric. IEEE Transactions on Smart Grid, 2019, 10, 1671-1684.	6.2	72
18	Use-After-Free Mitigation via Protected Heap Allocation. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
19	Dynamic Memory Protection via Intel SGX-Supported Heap Allocation. , 2018, , .		0
20	Algorithmic Attack Synthesis Using Hybrid Dynamics of Power Grid Critical Infrastructures. , 2018, , .		7
21	Cytocoded passwords: BioMEMS based barcoding of biological samples for user authentication in microfluidic diagnostic devices. Biomedical Microdevices, 2018, 20, 63.	1.4	3
22	A Framework of Smart and Secure Power Electronics Driven HVAC Thermal Inertia in Distributed Power Systems. , 2018, , .		4
23	RESeED: A secure regularâ€œexpression search tool for storage clouds. Software - Practice and Experience, 2017, 47, 1221-1241.	2.5	7
24	Argus: Smartphone-enabled human cooperation for disaster situational awareness via MARL. , 2017, , .		8
25	Trusted Sensor Signal Protection for Confidential Point-of-Care Medical Diagnostic. IEEE Sensors Journal, 2017, 17, 5807-5816.	2.4	7
26	Analytic corrective control selection for online remedial action scheme design in a cyber adversarial environment. IET Cyber-Physical Systems: Theory and Applications, 2017, 2, 188-197.	1.9	10
27	Guest Editorial Smart Grid Cyber-Physical Security. IEEE Transactions on Smart Grid, 2017, 8, 2409-2410.	6.2	9
28	Compromising Security of Economic Dispatch in Power System Operations. , 2017, , .		12
29	Cyber-air-gapped detection of controller attacks through physical interdependencies. , 2017, , .		1
30	CollabLoc: Privacy-Preserving Multi-Modal Localization via Collaborative Information Fusion. , 2017, , .		9
31	Distributed controller role and interaction discovery. , 2017, , .		5
32	Power grid safety control via fine-grained multi-persona programmable logic controllers. , 2017, , .		3
33	Fault-tolerant iterative solvers with adaptive reliability. , 2016, , .		0
34	Argus: Smartphone-Enabled Human Cooperation via Multi-agent Reinforcement Learning for Disaster Situational Awareness. , 2016, , .		14
35	Detecting PLC control corruption via on-device runtime verification. , 2016, , .		16
36	Don't Just BYOD, Bring-Your-Own-App Too! Protection via Virtual Micro Security Perimeters. , 2016, , .		8

#	ARTICLE	IF	CITATIONS
37	Secure mobile technologies for proactive critical infrastructure situational awareness. , 2016, , .		2
38	Secure Point-of-Care Medical Diagnostics via Trusted Sensing and Cyto-Coded Passwords. , 2016, , .		3
39	Towards cyber-physical intrusion tolerance. , 2015, , .		5
40	TSC: Trustworthy and Scalable Cytometry. , 2015, , .		6
41	Towards resilient cyber-physical control systems. , 2015, , .		2
42	CPIIndex: Cyber-Physical Vulnerability Assessment for Power-Grid Infrastructures. IEEE Transactions on Smart Grid, 2015, 6, 566-575.	6.2	126
43	CloudID: Trustworthy cloud-based and cross-enterprise biometric identification. Expert Systems With Applications, 2015, 42, 7905-7916.	4.4	234
44	Detecting Industrial Control Malware Using Automated PLC Code Analytics. IEEE Security and Privacy, 2014, 12, 40-47.	1.5	63
45	RESeED: A Tool for Regular Expression Search over Encrypted Data in Cloud Storage. , 2014, , .		1
46	TMQ: Threat model quantification in Smart Grid critical infrastructures. , 2014, , .		4
47	RESeED: Regular Expression Search over Encrypted Data in the Cloud. , 2014, , .		18
48	SOCCA: A Security-Oriented Cyber-Physical Contingency Analysis in Power Infrastructures. IEEE Transactions on Smart Grid, 2014, 5, 3-13.	6.2	90
49	A Multi-Sensor Energy Theft Detection Framework for Advanced Metering Infrastructures. IEEE Journal on Selected Areas in Communications, 2013, 31, 1319-1330.	9.7	212
50	Cyber-physical security metric inference in smart grid critical infrastructures based on system administrators' responsive behavior. Computers and Security, 2013, 39, 190-200.	4.0	22
51	Seccloud: A cloud-based comprehensive and lightweight security solution for smartphones. Computers and Security, 2013, 37, 215-227.	4.0	73
52	FloTracker: Log-Free and Instantaneous Host-Based Intrusion Root-Cause Analysis. , 2013, , .		0
53	Towards incorporating human intelligence into online security solutions. , 2012, , .		0
54	AMIDS: A multi-sensor energy theft detection framework for advanced metering infrastructures. , 2012, , .		38

#	ARTICLE	IF	CITATIONS
55	SCPSE: Security-Oriented Cyber-Physical State Estimation for Power Grid Critical Infrastructures. IEEE Transactions on Smart Grid, 2012, 3, 1790-1799.	6.2	155
56	Approximate Core Allocation for Large Cooperative Security Games. ISRN Communications and Networking, 2012, 2012, 1-8.	0.5	0