Sean Peisert

List of Publications by Year
in descending order

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72 papers	1,076 citations	643344 15 h-index	620720 26 g-index
74 all docs	74 docs citations	74 times ranked	952 citing authors

#	Article	IF	Citations
1	Differentially Private <i>K</i>-Means Clustering Applied to Meter Data Analysis and Synthesis. IEEE Transactions on Smart Grid, 2022, 13, 4801-4814.	6.2	7
2	Machine learning for metabolic engineering: A review. Metabolic Engineering, 2021, 63, 34-60.	3.6	135
3	Reflections on the Past, Perspectives on the Future [From the Editors]. IEEE Security and Privacy, 2021, 19, 4-7.	1.5	1
4	Lyapunov stability of smart inverters using linearized distflow approximation. IET Renewable Power Generation, 2021, 15, 114-126.	1.7	4
5	Perspectives on the SolarWinds Incident. IEEE Security and Privacy, 2021, 19, 7-13.	1.5	38
6	SolarWinds and the Challenges of Patching: Can We Ever Stop Dancing With the Devil?. IEEE Security and Privacy, 2021, 19, 14-19.	1.5	10
7	Deep Reinforcement Learning for Mitigating Cyber-Physical DER Voltage Unbalance Attacks. , 2021, , .		7
8	Performance Analysis of Scientific Computing Workloads on General Purpose TEEs. , 2021, , .		12
9	Trustworthy scientific computing. Communications of the ACM, 2021, 64, 18-21.	3.3	5
10	A Framework for Evaluating BFT. , 2021, , .		0
11	Learning Behavior of Distribution System Discrete Control Devices for Cyber-Physical Security. IEEE Transactions on Smart Grid, 2020, 11, 749-761.	6.2	9
12	A machine learning approach for packet loss prediction in science flows. Future Generation Computer Systems, 2020, 102, 190-197.	4.9	10
13	Phasor Measurement Units Optimal Placement and Performance Limits for Fault Localization. IEEE Journal on Selected Areas in Communications, 2020, 38, 180-192.	9.7	33
14	Isolating Insecurely: A Call to Arms for the Security and Privacy Community During the Time of COVID-19. IEEE Security and Privacy, 2020, 18, 4-7.	1.5	0
15	Anomaly Detection for Science DMZs Using System Performance Data. , 2020, , .		1
16	Deep Reinforcement Learning for DER Cyber-Attack Mitigation. , 2020, , .		11
17	SoDa: An Irradiance-Based Synthetic Solar Data Generation Tool. , 2020, , .		3
18	Detecting control system misbehavior by fingerprinting programmable logic controller functionality. International Journal of Critical Infrastructure Protection, 2019, 26, 100306.	2.9	8

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19	Trusted CI Experiences in Cybersecurity and Service to Open Science. , 2019, , .		4
20	Some Experiences in Developing Security Technology That Actually Get Used. IEEE Security and Privacy, 2019, 17, 4-7.	1.5	1
21	SPARCS: Stream-Processing Architecture Applied in Real-Time Cyber-Physical Security. , 2019, , .		0
22	Workflow Automation in Liquid Chromatography Mass Spectrometry. , 2019, , .		0
23	Blockchain as a Trusted Component in Cloud SLA Verification. , 2019, , .		9
24	Selected Papers from the 2017 IEEE Symposium on Security and Privacy. IEEE Security and Privacy, 2018, 16, 10-11.	1.5	0
25	Anomaly Detection Using Optimally Placed &lt;inline-formula&gt; &lt;tex-math notation="LaTeX"&gt;$mu ext{PMU}$ &lt;/tex-math&gt; &lt;/inline-formula&gt; Sensors in Distribution Grids. IEEE Transactions on Power Systems, 2018, 33, 3611-3623.	4.6	94
26	Flowzilla: A Methodology for Detecting Data Transfer Anomalies in Research Networks. , 2018, , .		7
27	Low-Resolution Fault Localization Using Phasor Measurement Units with Community Detection. , 2018, , .		10
28	The medical science DMZ: a network design pattern for data-intensive medical science. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 267-274.	2.2	12
29	Iterative Analysis to Improve Key Properties of Critical Human-Intensive Processes. ACM Transactions on Privacy and Security, 2017, 20, 1-31.	2.2	7
30	Big Data and Analysis of Data Transfers for International Research Networks Using NetSage. , 2017, , .		2
31	The Open Science Cyber Risk Profile: The Rosetta Stone for Open Science and Cybersecurity. IEEE Security and Privacy, 2017, 15, 94-95.	1.5	2
32	Integrated multi-scale data analytics and machine learning for the distribution grid. , 2017, , .		0
33	Online Thevenin parameter tracking using synchrophasor data. , 2017, , .		4
34	ASLR: How Robust Is the Randomness?. , 2017, , .		7
35	A Model of Owner Controlled, Full-Provenance, Non-Persistent, High-Availability Information Sharing. , 2017, , .		0
36	Security in high-performance computing environments. Communications of the ACM, 2017, 60, 72-80.	3.3	24

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37	Automated Anomaly Detection in Distribution Grids Using uPMU Measurements. , 2017, , .		7
38	Micro Synchrophasor-Based Intrusion Detection in Automated Distribution Systems: Toward Critical Infrastructure Security. IEEE Internet Computing, 2016, 20, 18-27.	3.2	36
39	The Medical Science DMZ. Journal of the American Medical Informatics Association: JAMIA, 2016, 23, 1199-1201.	2.2	11
40	Techniques for the dynamic randomization of network attributes. , 2015, , .		20
41	Automated Mechanical Ventilator Waveform Analysis of Patient-Ventilator Asynchrony. Chest, 2015, 148, 175A.	0.4	1
42	A Real-Time Testbed Environment for Cyber-Physical Security on the Power Grid. , 2015, , .		20
43	hBFT: Speculative Byzantine Fault Tolerance with Minimum Cost. IEEE Transactions on Dependable and Secure Computing, 2015, 12, 58-70.	3.7	31
44	Towards a Self-Adaptive Middleware for Building Reliable Publish/Subscribe Systems. Lecture Notes in Computer Science, 2015, , 157-168.	1.0	0
45	ByzID: Byzantine Fault Tolerance from Intrusion Detection. , 2014, , .		14
46	Monitoring Security of Networked Control Systems: It's the Physics. IEEE Security and Privacy, 2014, 12, 32-39.	1.5	17
47	P2S. , 2014, , .		6
48	Control Systems Security from the Front Lines. IEEE Security and Privacy, 2014, 12, 55-58.	1.5	3
49	Closing the Gap on Securing Energy Sector Control Systems [Guest editors' introduction]. IEEE Security and Privacy, 2014, 12, 13-14.	1.5	0
50	The IEEE Symposium on Security and Privacy, in Retrospect. IEEE Security and Privacy, 2014, 12, 15-17.	1.5	18
51	Insider Threat Identification by Process Analysis. , 2014, , .		27
52	Designed-in Security for Cyber-Physical Systems. IEEE Security and Privacy, 2014, 12, 9-12.	1.5	22
53	A hybrid network IDS for protective digital relays in the power transmission grid. , 2014, , .		22
54	Hybrid Control Network Intrusion Detection Systems for Automated Power Distribution Systems. , 2014, , .		33

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55	BChain: Byzantine Replication with High Throughput and Embedded Reconfiguration. Lecture Notes in Computer Science, 2014, , 91-106.	1.0	36
56	Multiclass classification of distributed memory parallel computations. Pattern Recognition Letters, 2013, 34, 322-329.	2.6	8
57	Principles of authentication. , 2013, , .		9
58	Security and Elections. IEEE Security and Privacy, 2012, 10, 64-67.	1.5	1
59	Network-theoretic classification of parallel computation patterns. International Journal of High Performance Computing Applications, 2012, 26, 159-169.	2.4	8
60	Reflections on the 30th Anniversary of the IEEE Symposium on Security and Privacy. , 2010, , .		4
61	Relationships and data sanitization. , 2010, , .		23
62	A Risk Management Approach to the â€œInsider Threatâ€. Advances in Information Security, 2010, , 115-137.	0.9	17
63	Panel: Technical, Social and Legal Frameworks for Digital Forensics and CyberInfrastructure Security. , 2009, , .		0
64	Quis Custodiet ipsos Custodes?. , 2009, , .		4
65	Computer Forensics in Forensis. , 2008, , .		15
66	Computer forensics in forensis. Operating Systems Review (ACM), 2008, 42, 112-122.	1.5	23
67	We have met the enemy and he is us. , 2008, , .		52
68	I Am a Scientist, Not a Philosopher!. IEEE Security and Privacy, 2007, 5, 48-51.	1.5	5
69	Analysis of Computer Intrusions Using Sequences of Function Calls. IEEE Transactions on Dependable and Secure Computing, 2007, 4, 137-150.	3.7	41
70	Toward Models for Forensic Analysis. , 2007, , .		21
71	How to Design Computer Security Experiments. IFIP Advances in Information and Communication Technology, 2007, , 141-148.	0.5	24
72	Principles-driven forensic analysis. , 2005, , .		19