William H Sanders

List of Publications by Year
in descending order

64 papers	2,081 citations	567144 15 h-index	395590 33 g-index
66 all docs	66 docs citations	66 times ranked	1370 citing authors

#	Article	IF	Citations
1	Stochastic Activity Networks: Formal Definitions and Conceptsâ€ . Lecture Notes in Computer Science, 2001, , 315-343.	1.0	195
2	Optimal state-space lumping in Markov chains. Information Processing Letters, 2003, 87, 309-315.	0.4	166
3	Intrusion Detection for Advanced Metering Infrastructures: Requirements and Architectural Directions. , 2010, , .		158
4	SCPSE: Security-Oriented Cyber-Physical State Estimation for Power Grid Critical Infrastructures. IEEE Transactions on Smart Grid, 2012, 3, 1790-1799.	6.2	155
5	Specification-Based Intrusion Detection for Advanced Metering Infrastructures. , 2011, , .		131
6	Model-based Security Metrics Using ADversary VIew Security Evaluation (ADVISE). , 2011, , .		116
7	RRE: A Game-Theoretic Intrusion Response and Recovery Engine. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 395-406.	4.0	99
8	SOCCA: A Security-Oriented Cyber-Physical Contingency Analysis in Power Infrastructures. IEEE Transactions on Smart Grid, 2014, 5, 3-13.	6.2	90
9	RRE: A game-theoretic intrusion Response and Recovery Engine. , 2009, , .		78
10	AMI threats, intrusion detection requirements and deployment recommendations. , 2012, , .		75
11	Adaptive uniformization. Stochastic Models, 1994, 10, 619-647.	0.3	63
12	Dependability evaluation using composed SAN-based reward models. Journal of Parallel and Distributed Computing, 1992, 15, 238-254.	2.7	51
13	M&#x00F6;bius 2.3: An extensible tool for dependability, security, and performance evaluation of large and complex system models. , 2009, , .		51
14	Reward model solution methods with impulse and rate rewards: an algorithm and numerical results. Performance Evaluation, 1994, 20, 413-436.	0.9	46
15	A Framework for Evaluating Intrusion Detection Architectures in Advanced Metering Infrastructures. IEEE Transactions on Smart Grid, 2014, 5, 906-915.	6.2	45
16	Modeling Peer-to-Peer Botnets. , 2008, , .		41
17	Adversary-driven state-based system security evaluation. , 2010, , .		36
18	State-space support for path-based reward variables. Performance Evaluation, 1999, 35, 233-251.	0.9	34

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19	F-DETA: A Framework for Detecting Electricity Theft Attacks in Smart Grids. , 2016, , .		34
20	Symbolic state-space exploration and numerical analysis of state-sharing composed models. Linear Algebra and Its Applications, 2004, 386, 137-166.	0.4	33
21	The Multiple-Asymmetric-Utility System Model: A Framework for Modeling Cyber-Human Systems. , 2011, , .		32
22	Usable Global Network Access Policy for Process Control Systems. IEEE Security and Privacy, 2008, 6, 30-36.	1.5	25
23	Performance and dependability modeling with Mӧbius. Performance Evaluation Review, 2009, 36, 16-21.	0.4	25
24	Seclius: An Information Flow-Based, Consequence-Centric Security Metric. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 562-573.	4.0	22
25	Efficient simulation of hierarchical stochastic activity network models. Discrete Event Dynamic Systems: Theory and Applications, 1993, 3, 271-299.	0.6	21
26	An architecture for adaptive intrusion-tolerant applications. Software - Practice and Experience, 2006, 36, 1331-1354.	2.5	15
27	The Mӧbius state-level abstract functional interface. Performance Evaluation, 2003, 54, 105-128.	0.9	14
28	Mobius: an integrated discrete-event modeling environment. Bioinformatics, 2007, 23, 3412-3414.	1.8	12
29	Data Protection Intents for Software-Defined Networking. , 2019, , .		12
30	Measure-adaptive state-space construction. Performance Evaluation, 2001, 44, 237-258.	0.9	11
31	A Kalman-Based Coordination for Hierarchical State Estimation:Â Agorithm and Analysis. , 2008, , .		11
32	Expected impulse rewards in Markov regenerative stochastic Petri nets. Lecture Notes in Computer Science, 1996, , 172-191.	1.0	11
33	On the effectiveness of a message-driven confidence-driven protocol for guarded software upgrading. Performance Evaluation, 2001, 44, 211-236.	0.9	10
34	On Train Automatic Stop Control Using Balises: Attacks and a Software-Only Countermeasure. , 2017, , .		10
35	A modular method for evaluating the performance of picture archiving and communication systems. Journal of Digital Imaging, 1993, 6, 172-193.	1.6	7
36	Dependability Analysis with Markov Chains: How Symmetries Improve Symbolic Computations. , 2007, , .		7

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37	Detecting and Exploiting Symmetry in Discrete-State Markov Models. IEEE Transactions on Reliability, 2007, 56, 643-654.	3.5	7
38	A Comparison of Different Intrusion Detection Approaches in an Advanced Metering Infrastructure Network Using ADVISE. Lecture Notes in Computer Science, 2016, , 279-294.	1.0	7
39	Cost-aware systemwide intrusion defense via online forensics and on-demand detector deployment. , 2010, , .		7
40	Detecting and Exploiting Symmetry in Discrete-state Markov Models. , 2006, , .		6
41	Scaling file systems to support petascale clusters: A dependability analysis to support informed design choices. , 2008, , .		6
42	Cost modeling of response actions for automated response and recovery in AMI. , 2012, , .		6
43	Determining Tolerable Attack Surfaces that Preserves Safety of Cyber-Physical Systems. , 2018, , .		6
44	The Möbius State-Level Abstract Functional Interface. Lecture Notes in Computer Science, 2002, , 31-50.	1.0	6
45	State-Based Analysis in ADVISE. , 2012, , .		5
46	Cyber-Physical Topology Language: Definition, Operations, and Application. , 2015, , .		5
47	Data-driven Model-based Detection of Malicious Insiders via Physical Access Logs. ACM Transactions on Modeling and Computer Simulation, 2019, 29, 1-25.	0.6	5
48	An Efficient Strategy for Model Composition in the Möbius Modeling Environment. , 2018, , .		4
49	Performability analysis of guarded-operation duration: a translation approach for reward model solutions. Performance Evaluation, 2004, 56, 249-276.	0.9	3
50	Experiences with building an intrusion-tolerant group communication system. Software - Practice and Experience, 2008, 38, 639-666.	2.5	3
51	Quantitative Evaluation of Security Metrics. , 2010, , .		3
52	Safeguarding academic accounts and resources with the University Credential Abuse Auditing System. , 2012, , .		3
53	Modeling Adversarial Physical Movement in a Railway Station. ACM Transactions on Cyber-Physical Systems, 2020, 4, 1-25.	1.9	3
54	Frameworks for evaluating discrete event dynamic systems. Discrete Event Dynamic Systems: Theory and Applications, 1993, 3, 113-118.	0.6	2

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55	Design of Experiments within the MÃ—bius Modeling Environment. , 2007, , .		2
56	A preorder relation for Markov reward processes. Statistics and Probability Letters, 2007, 77, 1148-1157.	0.4	2
57	Accounting for the Human User in Predictive Security Models. , 2017, , .		2
58	P4AIG: Circuit-Level Verification of P4 Programs. , 2019, , .		1
59	Revisiting Client Puzzles for State Exhaustion Attacks Resilience. , 2019, , .		1
60	Stacked Metamodels for Sensitivity Analysis and Uncertainty Quantification of AMI Models. , 2020, , .		1
61	Remote Job Management in the Möbius Modeling Framework. , 2009, , .		0
62	TCIPG: Trustworthy cyber infrastructure for the power grid overview. , 2012, , .		0
63	Building resilient infrastructures for smart energy systems (abstract). , 2012, , .		0
64	Extending the MÃ¶bius Modeling Environment with the Advanced Replication Operator. Performance Evaluation Review, 2021, 48, 62-67.	0.4	0