

Rakesh B Bobba

List of Publications by Year in descending order

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59
papers

1,518
citations

1040056

9
h-index

1125743

13
g-index

61
all docs

61
docs citations

61
times ranked

1244
citing authors

#	ARTICLE	IF	CITATIONS
1	SCPSE: Security-Oriented Cyber-Physical State Estimation for Power Grid Critical Infrastructures. IEEE Transactions on Smart Grid, 2012, 3, 1790-1799.	9.0	155
2	Attribute-Based Messaging. ACM Transactions on Information and System Security, 2010, 13, 1-35.	4.5	125
3	A Cyber-Physical Modeling and Assessment Framework for Power Grid Infrastructures. IEEE Transactions on Smart Grid, 2015, 6, 2464-2475.	9.0	111
4	SOCCA: A Security-Oriented Cyber-Physical Contingency Analysis in Power Infrastructures. IEEE Transactions on Smart Grid, 2014, 5, 3-13.	9.0	90
5	AMI threats, intrusion detection requirements and deployment recommendations. , 2012, , .		75
6	Topology Perturbation for Detecting Malicious Data Injection. , 2012, , .		68
7	Moving Target Defense for Hardening the Security of the Power System State Estimation. , 2014, , .		65
8	End-to-End Network Delay Guarantees for Real-Time Systems Using SDN. , 2017, , .		61
9	Power flow cyber attacks and perturbation-based defense. , 2012, , .		59
10	Design Principles for Power Grid Cyber-Infrastructure Authentication Protocols. , 2010, , .		51
11	A framework integrating attribute-based policies into role-based access control. , 2012, , .		47
12	Security of smart distribution grids: Data integrity attacks on integrated volt/VAR control and countermeasures. , 2014, , .		47
13	A Framework for Evaluating Intrusion Detection Architectures in Advanced Metering Infrastructures. IEEE Transactions on Smart Grid, 2014, 5, 906-915.	9.0	45
14	Using Attribute-Based Access Control to Enable Attribute-Based Messaging. Proceedings of the Computer Security Applications Conference, 2006, , .	0.0	38
15	Real-Time Systems Security through Scheduler Constraints. , 2014, , .		36
16	PBES. , 2009, , .		32
17	Next-Generation Access Control for Distributed Control Systems. IEEE Internet Computing, 2016, 20, 28-37.	3.3	30
18	Balancing Image Privacy and Usability with Thumbnail-Preserving Encryption. , 2019, , .		29

#	ARTICLE	IF	CITATIONS
19	A generalized model for preventing information leakage in hard real-time systems. , 2015, , .		28
20	Approximate Thumbnail Preserving Encryption. , 2017, , .		28
21	Learning Based Anomaly Detection for Industrial Arm Applications. , 2018, , .		25
22	A design-space exploration for allocating security tasks in multicore real-time systems. , 2018, , .		21
23	Cyber-Physical models for power grid security analysis: 8-substation case. , 2016, , .		20
24	A Novel Side-Channel in Real-Time Schedulers. , 2019, , .		20
25	On the (Im)Practicality of Adversarial Perturbation for Image Privacy. Proceedings on Privacy Enhancing Technologies, 2021, 2021, 85-106.	2.8	17
26	Integrating security constraints into fixed priority real-time schedulers. Real-Time Systems, 2016, 52, 644-674.	1.3	16
27	Exploring Opportunistic Execution for Integrating Security into Legacy Hard Real-Time Systems. , 2016, , .		15
28	Formal Analysis of Fault-tolerant Group Key Management Using ZooKeeper. , 2013, , .		13
29	On the practicality of detecting anomalies with encrypted traffic in AML. , 2014, , .		12
30	Understanding user perceptions of privacy, and configuration challenges in home automation. , 2017, , .		12
31	Towards SDN enabled network control delegation in clouds. , 2013, , .		10
32	Evidence of log integrity in policy-based security monitoring. , 2012, , .		9
33	Malicious data detection in state estimation leveraging system losses & estimation of perturbed parameters. , 2013, , .		9
34	A risk assessment tool for advanced metering infrastructures. , 2014, , .		9
35	Usable secure mailing lists with untrusted servers. , 2009, , .		8
36	Confidentiality-preserving obfuscation for cloud-based power system contingency analysis. , 2013, , .		8

#	ARTICLE	IF	CITATIONS
37	Inter-flow consistency: A novel SDN update abstraction for supporting inter-flow constraints. , 2015, ,		7
38	I'm too Busy to Reset my LinkedIn Password. , 2017, ,		7
39	If This <i>Context</i> Then That <i>Concern</i> : Exploring usersâ€™ concerns with IFTTT applets. Proceedings on Privacy Enhancing Technologies, 2022, 2022, 166-186.	2.8	6
40	Exploring security metrics for electric grid infrastructures leveraging attack graphs. , 2016, ,		5
41	Reconciling security protection and monitoring requirements in Advanced Metering Infrastructures. , 2013, ,		4
42	A Resilient Algorithm for Power System Mode Estimation using Synchrophasors. , 2016, ,		4
43	Scheduling, Isolation, and Cache Allocation: A Side-Channel Defense. , 2018, ,		4
44	Resilience Against Data Manipulation in Distributed Synchrophasor-Based Mode Estimation. IEEE Transactions on Smart Grid, 2021, 12, 3538-3547.	9.0	4
45	Period Adaptation for Continuous Security Monitoring in Multicore Real-Time Systems. , 2020, ,		3
46	Toward Adversarial Robustness by Diversity in an Ensemble of Specialized Deep Neural Networks. Lecture Notes in Computer Science, 2020, , 1-14.	1.3	3
47	Formal design of communication checkers for ICCP using UPPAAL. , 2013, ,		2
48	An empirical study on the software integrity of virtual appliances. , 2013, ,		2
49	First Workshop on Cyber-Physical Systems Security and PrivaCy (CPS-SPC). , 2015, ,		1
50	Second Workshop on Cyber-Physical Systems Security and PrivaCy (CPS-SPC'16). , 2016, ,		1
51	CPS-SPC 2017. , 2017, ,		1
52	False Data Detection in Distributed Oscillation Mode Estimation using Hierarchical k-means. , 2019, ,		1
53	Beyond Just Safety: Delay-aware Security Monitoring for Real-time Control Systems. ACM Transactions on Cyber-Physical Systems, 2022, 6, 1-25.	2.5	1
54	Trustworthy Services Built on Event-Based Probing for Layered Defense. , 2017, ,		0

#	ARTICLE	IF	CITATIONS
55	Safety Critical Networks using Commodity SDNs. , 2021, , .		0
56	Fourth International Workshop on Dependable and Secure Machine Learning “ DSML 2021. , 2021, , .		0
57	Limiting Data Exposure in Monitoring Multi-domain Policy Conformance. Lecture Notes in Computer Science, 2013, , 65-82.	1.3	0
58	Third International Workshop on Dependable and Secure Machine Learning “ DSML 2020. , 2020, , .		0
59	Improving Dependability via Deadline Guarantees in Commodity Real-time Networks. , 2020, , .		0