

Rakesh B Bobba

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,518
citations

1039406

9
h-index

1125271

13
g-index

61
all docs

61
docs citations

61
times ranked

1244
citing authors

#	ARTICLE	IF	CITATIONS
1	If This <i>Context</i> Then That <i>Concern</i> : Exploring users'™ concerns with IFTTT applets. Proceedings on Privacy Enhancing Technologies, 2022, 2022, 166-186.	2.3	6
2	Beyond Just Safety: Delay-aware Security Monitoring for Real-time Control Systems. ACM Transactions on Cyber-Physical Systems, 2022, 6, 1-25.	1.9	1
3	Safety Critical Networks using Commodity SDNs. , 2021, , .		0
4	Fourth International Workshop on Dependable and Secure Machine Learning " DSML 2021. , 2021, , .		0
5	Resilience Against Data Manipulation in Distributed Synchrophasor-Based Mode Estimation. IEEE Transactions on Smart Grid, 2021, 12, 3538-3547.	6.2	4
6	On the (Im)Practicality of Adversarial Perturbation for Image Privacy. Proceedings on Privacy Enhancing Technologies, 2021, 2021, 85-106.	2.3	17
7	Period Adaptation for Continuous Security Monitoring in Multicore Real-Time Systems. , 2020, , .		3
8	Third International Workshop on Dependable and Secure Machine Learning " DSML 2020. , 2020, , .		0
9	Toward Adversarial Robustness by Diversity in an Ensemble of Specialized Deep Neural Networks. Lecture Notes in Computer Science, 2020, , 1-14.	1.0	3
10	Improving Dependability via Deadline Guarantees in Commodity Real-time Networks. , 2020, , .		0
11	A Novel Side-Channel in Real-Time Schedulers. , 2019, , .		20
12	False Data Detection in Distributed Oscillation Mode Estimation using Hierarchical k-means. , 2019, , .		1
13	Balancing Image Privacy and Usability with Thumbnail-Preserving Encryption. , 2019, , .		29
14	Learning Based Anomaly Detection for Industrial Arm Applications. , 2018, , .		25
15	Scheduling, Isolation, and Cache Allocation: A Side-Channel Defense. , 2018, , .		4
16	A design-space exploration for allocating security tasks in multicore real-time systems. , 2018, , .		21
17	Trustworthy Services Built on Event-Based Probing for Layered Defense. , 2017, , .		0
18	I'm too Busy to Reset my LinkedIn Password. , 2017, , .		7

#	ARTICLE	IF	CITATIONS
19	End-to-End Network Delay Guarantees for Real-Time Systems Using SDN. , 2017, , .		61
20	CPS-SPC 2017. , 2017, , .		1
21	Understanding user perceptions of privacy, and configuration challenges in home automation. , 2017, , .		12
22	Approximate Thumbnail Preserving Encryption. , 2017, , .		28
23	Cyber-Physical models for power grid security analysis: 8-substation case. , 2016, , .		20
24	Second Workshop on Cyber-Physical Systems Security and PrivaCy (CPS-SPC'16). , 2016, , .		1
25	Exploring security metrics for electric grid infrastructures leveraging attack graphs. , 2016, , .		5
26	A Resilient Algorithm for Power System Mode Estimation using Synchrophasors. , 2016, , .		4
27	Exploring Opportunistic Execution for Integrating Security into Legacy Hard Real-Time Systems. , 2016, , .		15
28	Integrating security constraints into fixed priority real-time schedulers. Real-Time Systems, 2016, 52, 644-674.	1.1	16
29	Next-Generation Access Control for Distributed Control Systems. IEEE Internet Computing, 2016, 20, 28-37.	3.2	30
30	First Workshop on Cyber-Physical Systems Security and PrivaCy (CPS-SPC). , 2015, , .		1
31	Inter-flow consistency: A novel SDN update abstraction for supporting inter-flow constraints. , 2015, , .		7
32	A Cyber-Physical Modeling and Assessment Framework for Power Grid Infrastructures. IEEE Transactions on Smart Grid, 2015, 6, 2464-2475.	6.2	111
33	A generalized model for preventing information leakage in hard real-time systems. , 2015, , .		28
34	Real-Time Systems Security through Scheduler Constraints. , 2014, , .		36
35	A risk assessment tool for advanced metering infrastructures. , 2014, , .		9
36	On the practicality of detecting anomalies with encrypted traffic in AMI. , 2014, , .		12

#	ARTICLE	IF	CITATIONS
37	Moving Target Defense for Hardening the Security of the Power System State Estimation. , 2014, , .		65
38	A Framework for Evaluating Intrusion Detection Architectures in Advanced Metering Infrastructures. IEEE Transactions on Smart Grid, 2014, 5, 906-915.	6.2	45
39	SOCCA: A Security-Oriented Cyber-Physical Contingency Analysis in Power Infrastructures. IEEE Transactions on Smart Grid, 2014, 5, 3-13.	6.2	90
40	Security of smart distribution grids: Data integrity attacks on integrated volt/VAR control and countermeasures. , 2014, , .		47
41	Towards SDN enabled network control delegation in clouds. , 2013, , .		10
42	Confidentiality-preserving obfuscation for cloud-based power system contingency analysis. , 2013, , .		8
43	Formal design of communication checkers for ICCP using UPPAAL. , 2013, , .		2
44	Formal Analysis of Fault-tolerant Group Key Management Using ZooKeeper. , 2013, , .		13
45	Reconciling security protection and monitoring requirements in Advanced Metering Infrastructures. , 2013, , .		4
46	An empirical study on the software integrity of virtual appliances. , 2013, , .		2
47	Malicious data detection in state estimation leveraging system losses & estimation of perturbed parameters. , 2013, , .		9
48	Limiting Data Exposure in Monitoring Multi-domain Policy Conformance. Lecture Notes in Computer Science, 2013, , 65-82.	1.0	0
49	Evidence of log integrity in policy-based security monitoring. , 2012, , .		9
50	A framework integrating attribute-based policies into role-based access control. , 2012, , .		47
51	Power flow cyber attacks and perturbation-based defense. , 2012, , .		59
52	AMI threats, intrusion detection requirements and deployment recommendations. , 2012, , .		75
53	SCPSE: Security-Oriented Cyber-Physical State Estimation for Power Grid Critical Infrastructures. IEEE Transactions on Smart Grid, 2012, 3, 1790-1799.	6.2	155
54	Topology Perturbation for Detecting Malicious Data Injection. , 2012, , .		68

#	ARTICLE	IF	CITATIONS
55	Design Principles for Power Grid Cyber-Infrastructure Authentication Protocols. , 2010, , .		51
56	Attribute-Based Messaging. ACM Transactions on Information and System Security, 2010, 13, 1-35.	4.5	125
57	PBES. , 2009, , .		32
58	Usable secure mailing lists with untrusted servers. , 2009, , .		8
59	Using Attribute-Based Access Control to Enable Attribute-Based Messaging. Proceedings of the Computer Security Applications Conference, 2006, , .	0.0	38