Radha Poovendran

List of Publications by Year
in descending order

91 papers	2,627 citations	361413 20 h-index	302126 39 g-index
92 all docs	92 docs citations	92 times ranked	2250 citing authors

#	Article	IF	Citations
1	AMOEBA: Robust Location Privacy Scheme for VANET. IEEE Journal on Selected Areas in Communications, 2007, 25, 1569-1589.	14.0	309
2	Aviation Cyber–Physical Systems: Foundations for Future Aircraft and Air Transport. Proceedings of the IEEE, 2013, 101, 1834-1855.	21.3	134
3	Rope: robust position estimation in wireless sensor networks. , 0, , .		120
4	Optimal Jamming Attack Strategies and Network Defense Policies in Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2010, 9, 1119-1133.	5.8	106
5	A Supermodular Optimization Framework for Leader Selection Under Link Noise in Linear Multi-Agent Systems. IEEE Transactions on Automatic Control, 2014, 59, 283-296.	5.7	101
6	Mitigation of Control Channel Jamming under Node Capture Attacks. IEEE Transactions on Mobile Computing, 2009, 8, 1221-1234.	5.8	89
7	LineSwitch: Tackling Control Plane Saturation Attacks in Software-Defined Networking. IEEE/ACM Transactions on Networking, 2017, 25, 1206-1219.	3.8	89
8	A Passivity Framework for Modeling and Mitigating Wormhole Attacks on Networked Control Systems. IEEE Transactions on Automatic Control, 2014, 59, 3224-3237.	5.7	86
9	Semantic Adversarial Examples. , 2018, , .		73
10	A framework and taxonomy for comparison of electronic voting schemes. Computers and Security, 2006, 25, 137-153.	6.0	69
11	A Survey on Mix Networks and Their Secure Applications. Proceedings of the IEEE, 2006, 94, 2142-2181.	21.3	68
12	Minimizing Convergence Error in Multi-Agent Systems Via Leader Selection: A Supermodular Optimization Approach. IEEE Transactions on Automatic Control, 2014, 59, 1480-1494.	5.7	65
13	On the Limitation of Convolutional Neural Networks in Recognizing Negative Images. , 2017, , .		62
14	Node capture attacks in wireless sensor networks: A system theoretic approach. , 2010, , .		61
15	Cloaking the Clock: Emulating Clock Skew in Controller Area Networks. , 2018, , .		59
16	Protecting patient privacy against unauthorized release of medical images in a group communication environment. Computerized Medical Imaging and Graphics, 2005, 29, 367-383.	5.8	55
17	Maximizing Network Lifetime of Broadcasting Over Wireless Stationary Ad Hoc Networks. Mobile Networks and Applications, 2005, 10, 879-896.	3.3	50
18	Group Event Detection With a Varying Number of Group Members for Video Surveillance. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 1057-1067.	8.3	49

#	Article	IF	Citations
19	Shape of the Cloak: Formal Analysis of Clock Skew-Based Intrusion Detection System in Controller Area Networks. IEEE Transactions on Information Forensics and Security, 2019, 14, 2300-2314.	6.9	49
20	Modeling adaptive node capture attacks in multi-hop wireless networks. Ad Hoc Networks, 2007, 5, 801-814.	5.5	48
21	Modeling node capture attacks in wireless sensor networks. , 2008, , .		48
22	Google's Cloud Vision API is Not Robust to Noise. , 2017, , .		38
23	Effectiveness of IP address randomization in decoy-based moving target defense. , 2013, , .		37
24	Probabilistic Mitigation of Control Channel Jamming via Random Key Distribution. , 2007, , .		36
25	On leader selection for performance and controllability in multi-agent systems. , 2012, , .		34
26	Detecting ADS-B Spoofing Attacks Using Deep Neural Networks. , 2019, , .		33
27	TACAN. , 2019, , .		33
28	Evaluating the Vulnerability of Network Traffic Using Joint Security and Routing Analysis. IEEE Transactions on Dependable and Secure Computing, 2009, 6, 111-123.	5.4	32
29	Privacy versus scalability in radio frequency identification systems. Computer Communications, 2010, 33, 2155-2163.	5.1	31
30	Deceptive routing games. , 2012, , .		31
31	Minimizing Energy Consumption in Body Sensor Networks via Convex Optimization. , 2010, , .		28
32	Linear programming models for jamming attacks on network traffic flows. , 2008, , .		26
33	Efficient Authentication for Mobile and Pervasive Computing. IEEE Transactions on Mobile Computing, 2014, 13, 469-481.	5.8	24
34	Incentivizing crowdsourcing for radio environment mapping with statistical interpolation. , 2015, , .		24
35	Truck platoon security: State-of-the-art and road ahead. Computer Networks, 2021, 185, 107658.	5.1	22
36	GeM-REM: Generative Model-Driven Resource Efficient ECG Monitoring in Body Sensor Networks. , 2011, , .		21

#	Article	IF	Citations
37	Secure wireless collection and distribution of commercial airplane health data. IEEE Aerospace and Electronic Systems Magazine, 2009, 24, 14-20.	1.3	20
38	An impact-aware defense against Stuxnet. , 2013, , .		19
39	Pricing Mechanisms for Crowd-Sensed Spatial-Statistics-Based Radio Mapping. IEEE Transactions on Cognitive Communications and Networking, 2017, 3, 242-254.	7.9	18
40	A Game-Theoretic Approach for Dynamic Information Flow Tracking to Detect Multistage Advanced Persistent Threats. IEEE Transactions on Automatic Control, 2020, 65, 5248-5263.	5.7	18
41	Securing low-cost RFID systems: An unconditionally secure approach. Journal of Computer Security, 2011, 19, 229-257.	0.8	17
42	Leader selection in multi-agent systems for smooth convergence via fast mixing. , 2012, , .		16
43	Maximizing the smallest eigenvalue of a symmetric matrix: A submodular optimization approach. Automatica, 2018, 95, 446-454.	5.0	16
44	Assessing Shape Bias Property of Convolutional Neural Networks. , 2018, , .		15
45	DIFT Games: Dynamic Information Flow Tracking Games for Advanced Persistent Threats. , 2018, , .		15
46	Submodular Optimization for Voltage Control. IEEE Transactions on Power Systems, 2018, 33, 502-513.	6.5	14
47	Controlled Islanding via Weak Submodularity. IEEE Transactions on Power Systems, 2019, 34, 1858-1868.	6.5	14
48	Minimizing center key storage in hybrid one-way function based group key management with communication constraints. Information Processing Letters, 2005, 93, 191-198.	0.6	13
49	Energy and Bandwidth-Efficient Key Distribution in Wireless Ad Hoc Networks: A Cross-Layer Approach. IEEE/ACM Transactions on Networking, 2007, 15, 1527-1540.	3.8	11
50	A submodular optimization approach to leader-follower consensus in networks with negative edges. , 2017, , .		11
51	Deceiving Google's Cloud Video Intelligence API Built for Summarizing Videos. , 2017, , .		10
52	A passivity-based framework for composing attacks on networked control systems. , 2012, , .		9
53	A Game Theoretic Approach for Dynamic Information Flow Tracking with Conditional Branching. , 2019, , .		9
54	Group event detection for video surveillance. , 2009, , .		8

#	Article	IF	Citations
55	Secure Control under Partial Observability with Temporal Logic Constraints. , 2019, , .		8
56	A convex optimization approach for clone detection in wireless sensor networks. Pervasive and Mobile Computing, 2013, 9, 528-545.	3.3	7
57	Joint leader and link weight selection for fast convergence in multi-agent systems. , 2013, , .		7
58	Scalable and distributed submodular maximization with matroid constraints. , 2015, , .		7
59	Minimal input selection for robust control. , 2017, , .		7
60	Throughput optimization for multipath unicast routing under probabilistic jamming. , 2008, , .		6
61	Secure Control in Partially Observable Environments to Satisfy LTL Specifications. IEEE Transactions on Automatic Control, 2021, 66, 5665-5679.	5.7	6
62	A host takeover game model for competing malware. , 2015, , .		5
63	Toward Synchronization in Networks With Nonlinear Dynamics: A Submodular Optimization Framework. IEEE Transactions on Automatic Control, 2017, 62, 5055-5068.	5.7	5
64	Modeling and Mitigating the Coremelt Attack. , 2018, , .		5
65	Minimal Input and Output Selection for Stability of Systems With Uncertainties. IEEE Transactions on Automatic Control, 2019, 64, 1456-1471.	5.7	5
66	Adaptive learning in two-player Stackelberg games with continuous action sets. , 2019, , .		5
67	Privacy-Preserving Resilience of Cyber-Physical Systems to Adversaries. , 2020, , .		5
68	Spatial-Temporal Access Control for E-health Services. , 2010, , .		4
69	Assessment and mitigation of cyber exploits in future aircraft surveillance. , 2010, , .		4
70	Verifiable and privacy-preserving fine-grained data-collection for smart metering. , 2015, , .		4
71	Covert Channel-Based Transmitter Authentication in Controller Area Networks. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 2665-2679.	5.4	4
72	Linear Temporal Logic Satisfaction in Adversarial Environments Using Secure Control Barrier Certificates. Lecture Notes in Computer Science, 2019, , 385-403.	1.3	4

#	Article	IF	Citations
73	Control Synthesis for Cyber-Physical Systems to Satisfy Metric Interval Temporal Logic Objectives under Timing and Actuator Attacks. , 2020, , .		4
74	Passivity framework for composition and mitigation of multi-virus propagation in networked systems. , 2015, , .		3
75	Learning Temporal Dependence from Time-Series Data with Latent Variables. , 2016, , .		3
76	Dropping Pixels for Adversarial Robustness. , 2019, , .		3
77	Quickest Detection of Advanced Persistent Threats: A Semi-Markov Game Approach. , 2020, , .		3
78	A Metric for Quantifying Key Exposure Vulnerability in Wireless Sensor Networks. , 2010, , .		2
79	Deployment and exploitation of deceptive honeybots in social networks. , 2013, , .		2
80	Input selection for disturbance rejection in networked cyber-physical systems. , 2015, , .		2
81	Introduction to the Issue on Signal and Information Processing for Privacy. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 1173-1175.	10.8	2
82	Distributed adaptive patching strategies against malware propagation: A passivity approach. , 2016, , .		2
83	On the Structure and Computation of Random Walk Times in Finite Graphs. IEEE Transactions on Automatic Control, 2019, 64, 4470-4483.	5.7	2
84	Dynamic Information Flow Tracking Games for Simultaneous Detection of Multiple Attackers. , 2019, , .		2
85	Tradeoffs between jamming resilience and communication efficiency in key establishment. Mobile Computing and Communications Review, 2009, 13, 14-25.	1.7	2
86	Secure wireless networking. Journal of Communications and Networks, 2009, 11, 323-327.	2.6	1
87	Jamming-based adversarial control of network flow allocation: A passivity approach. , 2015, , .		1
88	Learning Equilibria in Stochastic Information Flow Tracking Games with Partial Knowledge. , 2019, , .		1
89	A Game-Theoretic Framework for Controlled Islanding in the Presence of Adversaries. Lecture Notes in Computer Science, 2021, , 231-250.	1.3	1
90	Optimized relay-route assignment for anonymity in wireless networks. , 2013, , .		0

#	Article	IF	Citations
91	Input Selection for Performance, Stabilizability, and Controllability of Structured Linear Descriptor Systems. , 2018, , .		0