

# Radha Poovendran

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Covert Channel-Based Transmitter Authentication in Controller Area Networks. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 2665-2679.	5.4	4
2	Truck platoon security: State-of-the-art and road ahead. Computer Networks, 2021, 185, 107658.	5.1	22
3	A Game-Theoretic Framework for Controlled Islanding in the Presence of Adversaries. Lecture Notes in Computer Science, 2021, , 231-250.	1.3	1
4	Secure Control in Partially Observable Environments to Satisfy LTL Specifications. IEEE Transactions on Automatic Control, 2021, 66, 5665-5679.	5.7	6
5	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
6	Quickest Detection of Advanced Persistent Threats: A Semi-Markov Game Approach. , 2020, , .		3
7	Privacy-Preserving Resilience of Cyber-Physical Systems to Adversaries. , 2020, , .		5
8	Control Synthesis for Cyber-Physical Systems to Satisfy Metric Interval Temporal Logic Objectives under Timing and Actuator Attacks. , 2020, , .		4
9	Minimal Input and Output Selection for Stability of Systems With Uncertainties. IEEE Transactions on Automatic Control, 2019, 64, 1456-1471.	5.7	5
10	Detecting ADS-B Spoofing Attacks Using Deep Neural Networks. , 2019, , .		33
11	On the Structure and Computation of Random Walk Times in Finite Graphs. IEEE Transactions on Automatic Control, 2019, 64, 4470-4483.	5.7	2
12	TACAN. , 2019, , .		33
13	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
14	Dropping Pixels for Adversarial Robustness. , 2019, , .		3
15	A Game Theoretic Approach for Dynamic Information Flow Tracking with Conditional Branching. , 2019, , .		9
16	Learning Equilibria in Stochastic Information Flow Tracking Games with Partial Knowledge. , 2019, , .		1
17	Dynamic Information Flow Tracking Games for Simultaneous Detection of Multiple Attackers. , 2019, , .		2
18	Adaptive learning in two-player Stackelberg games with continuous action sets. , 2019, , .		5

#	ARTICLE	IF	CITATIONS
19	Controlled Islanding via Weak Submodularity. IEEE Transactions on Power Systems, 2019, 34, 1858-1868.	6.5	14
20	Linear Temporal Logic Satisfaction in Adversarial Environments Using Secure Control Barrier Certificates. Lecture Notes in Computer Science, 2019, , 385-403.	1.3	4
21	Secure Control under Partial Observability with Temporal Logic Constraints. , 2019, , .		8
22	Submodular Optimization for Voltage Control. IEEE Transactions on Power Systems, 2018, 33, 502-513.	6.5	14
23	Assessing Shape Bias Property of Convolutional Neural Networks. , 2018, , .		15
24	DIFT Games: Dynamic Information Flow Tracking Games for Advanced Persistent Threats. , 2018, , .		15
25	Semantic Adversarial Examples. , 2018, , .		73
26	Input Selection for Performance, Stabilizability, and Controllability of Structured Linear Descriptor Systems. , 2018, , .		0
27	Cloaking the Clock: Emulating Clock Skew in Controller Area Networks. , 2018, , .		59
28	Maximizing the smallest eigenvalue of a symmetric matrix: A submodular optimization approach. Automatica, 2018, 95, 446-454.	5.0	16
29	Modeling and Mitigating the Coremelt Attack. , 2018, , .		5
30	Toward Synchronization in Networks With Nonlinear Dynamics: A Submodular Optimization Framework. IEEE Transactions on Automatic Control, 2017, 62, 5055-5068.	5.7	5
31	Pricing Mechanisms for Crowd-Sensed Spatial-Statistics-Based Radio Mapping. IEEE Transactions on Cognitive Communications and Networking, 2017, 3, 242-254.	7.9	18
32	LineSwitch: Tackling Control Plane Saturation Attacks in Software-Defined Networking. IEEE/ACM Transactions on Networking, 2017, 25, 1206-1219.	3.8	89
33	Deceiving Google™s Cloud Video Intelligence API Built for Summarizing Videos. , 2017, , .		10
34	A submodular optimization approach to leader-follower consensus in networks with negative edges. , 2017, , .		11
35	Google's Cloud Vision API is Not Robust to Noise. , 2017, , .		38
36	Minimal input selection for robust control. , 2017, , .		7

#	ARTICLE	IF	CITATIONS
37	On the Limitation of Convolutional Neural Networks in Recognizing Negative Images. , 2017, , .		62
38	Learning Temporal Dependence from Time-Series Data with Latent Variables. , 2016, , .		3
39	Distributed adaptive patching strategies against malware propagation: A passivity approach. , 2016, , .		2
40	Input selection for disturbance rejection in networked cyber-physical systems. , 2015, , .		2
41	A host takeover game model for competing malware. , 2015, , .		5
42	Incentivizing crowdsourcing for radio environment mapping with statistical interpolation. , 2015, , .		24
43	Verifiable and privacy-preserving fine-grained data-collection for smart metering. , 2015, , .		4
44	Passivity framework for composition and mitigation of multi-virus propagation in networked systems. , 2015, , .		3
45	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
46	Jamming-based adversarial control of network flow allocation: A passivity approach. , 2015, , .		1
47	Scalable and distributed submodular maximization with matroid constraints. , 2015, , .		7
48	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
49	Efficient Authentication for Mobile and Pervasive Computing. IEEE Transactions on Mobile Computing, 2014, 13, 469-481.	5.8	24
50	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
51	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
52	Aviation Cyber-Physical Systems: Foundations for Future Aircraft and Air Transport. Proceedings of the IEEE, 2013, 101, 1834-1855.	21.3	134
53	Effectiveness of IP address randomization in decoy-based moving target defense. , 2013, , .		37
54	Optimized relay-route assignment for anonymity in wireless networks. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
55	A convex optimization approach for clone detection in wireless sensor networks. Pervasive and Mobile Computing, 2013, 9, 528-545.	3.3	7
56	Deployment and exploitation of deceptive honeypots in social networks. , 2013, , .		2
57	Joint leader and link weight selection for fast convergence in multi-agent systems. , 2013, , .		7
58	An impact-aware defense against Stuxnet. , 2013, , .		19
59	A passivity-based framework for composing attacks on networked control systems. , 2012, , .		9
60	Leader selection in multi-agent systems for smooth convergence via fast mixing. , 2012, , .		16
61	On leader selection for performance and controllability in multi-agent systems. , 2012, , .		34
62	Deceptive routing games. , 2012, , .		31
63	GeM-REM: Generative Model-Driven Resource Efficient ECG Monitoring in Body Sensor Networks. , 2011, , .		21
64	Securing low-cost RFID systems: An unconditionally secure approach. Journal of Computer Security, 2011, 19, 229-257.	0.8	17
65	Privacy versus scalability in radio frequency identification systems. Computer Communications, 2010, 33, 2155-2163.	5.1	31
66	Node capture attacks in wireless sensor networks: A system theoretic approach. , 2010, , .		61
67	Optimal Jamming Attack Strategies and Network Defense Policies in Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2010, 9, 1119-1133.	5.8	106
68	Minimizing Energy Consumption in Body Sensor Networks via Convex Optimization. , 2010, , .		28
69	A Metric for Quantifying Key Exposure Vulnerability in Wireless Sensor Networks. , 2010, , .		2
70	Spatial-Temporal Access Control for E-health Services. , 2010, , .		4
71	Assessment and mitigation of cyber exploits in future aircraft surveillance. , 2010, , .		4
72	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

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73	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
74	Group event detection for video surveillance. , 2009, , .		8
75	Secure wireless collection and distribution of commercial airplane health data. IEEE Aerospace and Electronic Systems Magazine, 2009, 24, 14-20.	1.3	20
76	Secure wireless networking. Journal of Communications and Networks, 2009, 11, 323-327.	2.6	1
77	Mitigation of Control Channel Jamming under Node Capture Attacks. IEEE Transactions on Mobile Computing, 2009, 8, 1221-1234.	5.8	89
78	Tradeoffs between jamming resilience and communication efficiency in key establishment. Mobile Computing and Communications Review, 2009, 13, 14-25.	1.7	2
79	Linear programming models for jamming attacks on network traffic flows. , 2008, , .		26
80	Modeling node capture attacks in wireless sensor networks. , 2008, , .		48
81	Throughput optimization for multipath unicast routing under probabilistic jamming. , 2008, , .		6
82	Probabilistic Mitigation of Control Channel Jamming via Random Key Distribution. , 2007, , .		36
83	AMOEBa: Robust Location Privacy Scheme for VANET. IEEE Journal on Selected Areas in Communications, 2007, 25, 1569-1589.	14.0	309
84	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
85	Modeling adaptive node capture attacks in multi-hop wireless networks. Ad Hoc Networks, 2007, 5, 801-814.	5.5	48
86	A Survey on Mix Networks and Their Secure Applications. Proceedings of the IEEE, 2006, 94, 2142-2181.	21.3	68
87	A framework and taxonomy for comparison of electronic voting schemes. Computers and Security, 2006, 25, 137-153.	6.0	69
88	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
89	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
90	Maximizing Network Lifetime of Broadcasting Over Wireless Stationary Ad Hoc Networks. Mobile Networks and Applications, 2005, 10, 879-896.	3.3	50

#	ARTICLE	IF	CITATIONS
91	Rope: robust position estimation in wireless sensor networks. , 0, , .		120