

Parvathinathan Venkitasubramaniam

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

835
citations

687220

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h-index

610775

24
g-index

70
all docs

70
docs citations

70
times ranked

656
citing authors

#	ARTICLE	IF	CITATIONS
1	A cross-layer perspective in an uncharted path - Signal processing in random access. IEEE Signal Processing Magazine, 2004, 21, 29-39.	4.6	111
2	Sensor Networks With Mobile Access: Optimal Random Access and Coding. IEEE Journal on Selected Areas in Communications, 2004, 22, 1058-1068.	9.7	84
3	Anonymous Networking Amidst Eavesdroppers. IEEE Transactions on Information Theory, 2008, 54, 2770-2784.	1.5	63
4	Stealthy Control Signal Attacks in Linear Quadratic Gaussian Control Systems: Detectability Reward Tradeoff. IEEE Transactions on Information Forensics and Security, 2017, 12, 1555-1570.	4.5	58
5	Quantization for Maximin ARE in Distributed Estimation. IEEE Transactions on Signal Processing, 2007, 55, 3596-3605.	3.2	44
6	GPS spoofing attack characterization and detection in smart grids. , 2016, , .		33
7	False Data Injection and Detection in LQG Systems: A Game Theoretic Approach. IEEE Transactions on Control of Network Systems, 2020, 7, 338-348.	2.4	31
8	Anonymous Networking with Minimum Latency in Multihop Networks. Sp'97, 2008, , .	0.0	24
9	The Privacy Analysis of Battery Control Mechanisms in Demand Response: Revealing State Approach and Rate Distortion Bounds. IEEE Transactions on Smart Grid, 2015, 6, 2417-2425.	6.2	22
10	Compressive sensing based structural damage detection and localization using theoretical and metaheuristic statistics. Structural Control and Health Monitoring, 2017, 24, e1881.	1.9	22
11	Mitigating timing based information leakage in shared schedulers. , 2012, , .		21
12	Information-Theoretic Security in Stochastic Control Systems. Proceedings of the IEEE, 2015, 103, 1914-1931.	16.4	20
13	Privacy Aware Stochastic Games for Distributed End-User Energy Storage Sharing. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 82-95.	1.6	18
14	Designing Router Scheduling Policies: A Privacy Perspective. IEEE Transactions on Signal Processing, 2012, 60, 2001-2012.	3.2	17
15	A Game-Theoretic Approach to Anonymous Networking. IEEE/ACM Transactions on Networking, 2012, 20, 892-905.	2.6	16
16	Privacy in stochastic control: A Markov Decision Process perspective. , 2013, , .		16
17	Toward an analytical approach to anonymous wireless networking. , 2008, 46, 140-146.		15
18	On the anonymity of Chaum mixes. , 2008, , .		14

#	ARTICLE	IF	CITATIONS
19	Optimal end user energy storage sharing in demand response. , 2015, , .		14
20	Mitigating Timing Side Channel in Shared Schedulers. IEEE/ACM Transactions on Networking, 2016, 24, 1562-1573.	2.6	12
21	Information theoretic analysis of side channel information leakage in FCFS schedulers. , 2011, , .		11
22	Network topology risk assessment of stealthy cyber attacks on advanced metering infrastructure networks. , 2017, , .		11
23	Scheduling with privacy constraints. , 2012, , .		9
24	The privacy analysis of battery control mechanisms in demand response: Revealing state approach and rate distortion bounds. , 2014, , .		9
25	Anonymity of Memory-Limited Chaum Mixes Under Timing Analysis: An Information Theoretic Perspective. IEEE Transactions on Information Theory, 2015, 61, 996-1009.	1.5	9
26	Stealthy control signal attacks in vector LQG systems. , 2016, , .		9
27	Stealthy Attacks in Dynamical Systems: Tradeoffs Between Utility and Detectability With Application in Anonymous Systems. IEEE Transactions on Information Forensics and Security, 2017, 12, 779-792.	4.5	9
28	Score-Function Quantization for Distributed Estimation. , 2006, , .		8
29	Packet Scheduling Against Stepping-Stone Attacks with Chaff. , 2006, , .		8
30	Admissible Length Study in Anonymous Networking: A Detection Theoretic Perspective. IEEE Journal on Selected Areas in Communications, 2013, 31, 1957-1969.	9.7	8
31	Iterative Spatial Compressive Sensing Strategy for Structural Damage Diagnosis as a BIG DATA Problem. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 185-190.	0.3	7
32	A game theoretic approach to analyze false data injection and detection in LQG system. , 2017, , .		6
33	Source anonymity in fair scheduling: A case for the proportional method. , 2012, , .		5
34	Preventing Timing Analysis in Networks: A Statistical Inference Perspective. IEEE Signal Processing Magazine, 2013, 30, 76-85.	4.6	5
35	Stochastic games of end-user energy storage sharing. , 2016, , .		5
36	Anonymity and Fairness in Packet Scheduling: A Quantitative Tradeoff. IEEE/ACM Transactions on Networking, 2016, 24, 688-702.	2.6	5

#	ARTICLE	IF	CITATIONS
37	Data-driven Contract Design. , 2019, , .		5
38	Modeling and Detection of Future Cyber-Enabled DSM Data Attacks. Energies, 2020, 13, 4331.	1.6	5
39	Anonymity under light traffic conditions using a network of mixes. , 2008, , .		4
40	The anonymity of an almost fair chaum mix. , 2011, , .		4
41	Stealthy control signal attacks in scalar LQG systems. , 2015, , .		4
42	Delay Anonymity Tradeoff in Mix Networks: Optimal Routing. IEEE/ACM Transactions on Networking, 2017, 25, 1162-1175.	2.6	4
43	On the privacy-cost tradeoff of an in-home power storage mechanism. , 2013, , .		3
44	Anonymity of a buffer constrained chaum mix: Optimal strategy and asymptotics. , 2013, , .		3
45	Decision making under privacy restrictions. , 2013, , .		3
46	Sensitivity and Coding of Opportunistic ALOHA in Sensor Networks with Mobile Access. Journal of Signal Processing Systems, 2005, 41, 329-344.	1.0	2
47	Anonymity in packet scheduling under the max-min fairness criterion. , 2012, , .		2
48	Under the radar attacks in dynamical systems: Adversarial privacy utility tradeoffs. , 2014, , .		2
49	Differential privacy in networked data collection. , 2016, , .		2
50	Optimal Multi-Source Inference Privacy â€” A Generalized Lloyd-Max Algorithm. , 2018, , .		2
51	Optimal Distribution Mapping for Inference Privacy. , 2018, , .		2
52	Networking with Secrecy Constraints. , 2006, , .		1
53	Designing privacy preserving router scheduling policies. , 2011, , .		1
54	Maximizing privacy in Variable Bit rate Coding. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
55	Encompassing anonymity in signaling games. , 2014, , .		1
56	Rate allocation for Multihop routing in anonymous networking. , 2014, , .		1
57	Relay selection in wireless networks for optimal delay anonymity tradeoff. , 2015, , .		1
58	Coupon Targeting Competition in Privacy Sensitive Market. , 2018, , .		1
59	Mutual-Information-Private Online Gradient Descent Algorithm. , 2018, , .		1
60	Optimal Local Differentially Private Quantization. IEEE Transactions on Signal Processing, 2020, 68, 6509-6520.	3.2	1
61	Incentivizing anonymous “peer-to-peer” reviews. , 2008, , .		0
62	Anonymous networking amidst active adversaries. , 2009, , .		0
63	Anonymous networking with localized eavesdroppers: A game-theoretic approach. , 2009, , .		0
64	Anonymity under flow insertion: A game theoretic approach. , 2010, , .		0
65	Thwarting traffic analysis: A signal processing perspective. , 2012, , .		0
66	Relay selection for optimal delay anonymity tradeoff in anonymous networks. , 2015, , .		0
67	Relay Selection and Operation Control for Optimal Delay Anonymity Tradeoff in Anonymous Networks. IEEE Transactions on Control of Network Systems, 2018, 5, 607-617.	2.4	0
68	Detecting Cyber Attack Under Quantitative Impact of Demand Side Management. , 2020, , .		0
69	Data-Driven Contract Design for Multi-Agent Systems With Collusion Detection. IEEE Signal Processing Letters, 2022, 29, 1002-1006.	2.1	0
70	Inferential Separation for Privacy: Irrelevant Statistics and Quantization. IEEE Transactions on Information Forensics and Security, 2022, 17, 2241-2255.	4.5	0