Shreyas Sundaram

List of Publications by Year in descending order

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257450 189892 3,738 132 24 50 citations h-index g-index papers 132 132 132 1985 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Network defense and behavioral biases: an experimental study. Experimental Economics, 2022, 25, 254-286.	2.1	7
2	Parameter Estimation in Epidemic Spread Networks Using Limited Measurements. SIAM Journal on Control and Optimization, 2022, 60, S49-S74.	2.1	1
3	On the computational complexity of the secure state-reconstruction problem. Automatica, 2022, 136, 110083.	5.0	10
4	Distributed State Estimation Over Time-Varying Graphs: Exploiting the Age-of-Information. IEEE Transactions on Automatic Control, 2022, 67, 6349-6365.	5.7	3
5	On a Networked SIS Epidemic Model With Cooperative and Antagonistic Opinion Dynamics. IEEE Transactions on Control of Network Systems, 2022, 9, 1154-1165.	3.7	17
6	On the Complexity and Approximability of Optimal Sensor Selection and Attack for Kalman Filtering. IEEE Transactions on Automatic Control, 2021, 66, 2146-2161.	5.7	15
7	Optimal Repair Policies for Systems Deteriorating After Disruptions. IEEE Transactions on Automatic Control, 2021, , 1-1.	5.7	O
8	Distributed Inference With Sparse and Quantized Communication. IEEE Transactions on Signal Processing, 2021, 69, 3906-3921.	5. 3	8
9	Morshed: Guiding Behavioral Decision-Makers towards Better Security Investment in Interdependent Systems., 2021,,.		5
10	HIOA-CPS: Combining Hybrid Input-Output Automaton and Game Theory for Security Modeling of Cyber-Physical Systems. , 2021, , .		0
11	On the Impacts of Redundancy, Diversity, and Trust in Resilient Distributed State Estimation. IEEE Transactions on Control of Network Systems, 2021, 8, 713-724.	3.7	12
12	Optimizing Quality of Experience for Long-Range UAS Video Streaming. , 2021, , .		1
13	A New Approach to Distributed Hypothesis Testing and Non-Bayesian Learning: Improved Learning Rate and Byzantine Resilience. IEEE Transactions on Automatic Control, 2021, 66, 4084-4100.	5 . 7	18
14	Control Policies for Recovery of Interdependent Systems After Disruptions. IEEE Transactions on Control of Network Systems, 2021, , 1-1.	3.7	0
15	Controlling Human Utilization of Failure-Prone Systems via Taxes. IEEE Transactions on Automatic Control, 2021, 66, 5772-5787.	5.7	4
16	The Effect of Behavioral Probability Weighting in a Simultaneous Multi-Target Attacker-Defender Game., 2021,,.		6
17	Towards Resilience for Multi-Agent QD-Learning. , 2021, , .		5
18	Distributed Estimation of Sparse Inverse Covariances., 2021,,.		2

#	Article	lF	Citations
19	Peak Infection Time for a Networked SIR Epidemic with Opinion Dynamics. , 2021, , .		3
20	Resilient Sensor Placement for Kalman Filtering in Networked Systems: Complexity and Algorithms. IEEE Transactions on Control of Network Systems, 2020, 7, 1870-1881.	3.7	10
21	Behavioral and Game-Theoretic Security Investments in Interdependent Systems Modeled by Attack Graphs. IEEE Transactions on Control of Network Systems, 2020, 7, 1585-1596.	3.7	20
22	Min-Max Tours and Paths for Task Allocation toÂHeterogeneous Agents. IEEE Transactions on Control of Network Systems, 2020, 7, 1511-1522.	3.7	7
23	Byzantine-Resilient Distributed Optimization of Multi-Dimensional Functions. , 2020, , .		15
24	Distributed Maximization of Submodular and Approximately Submodular Functions., 2020,,.		4
25	Event-Triggered Distributed Inference. , 2020, , .		6
26	The Effect of Behavioral Probability Weighting in a Sequential Defender-Attacker Game. , 2020, , .		3
27	On the Set of Possible Minimizers of a Sum of Known and Unknown Functions. , 2020, , .		1
28	Distributed Optimization Under Adversarial Nodes. IEEE Transactions on Automatic Control, 2019, 64, 1063-1076.	5.7	126
29	Cooperative Vehicle Speed Fault Diagnosis and Correction. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 783-789.	8.0	31
30	Byzantine-resilient distributed observers for LTI systems. Automatica, 2019, 108, 108487.	5.0	68
31	Game-Theoretic Vaccination Against Networked SIS Epidemics and Impacts of Human Decision-Making. IEEE Transactions on Control of Network Systems, 2019, 6, 1461-1472.	3.7	35
32	Game-Theoretic Protection Against Networked SIS Epidemics by Human Decision-Makers. IFAC-PapersOnLine, 2019, 51, 145-150.	0.9	7
33	Resilience against misbehaving nodes in asynchronous networks. Automatica, 2019, 104, 26-33.	5.0	30
34	Finite-Time Distributed State Estimation over Time-Varying Graphs: Exploiting the Age-of-Information. , 2019, , .		14
35	Protecting Assets with Heterogeneous Valuations under Behavioral Probability Weighting. , 2019, , .		6
36	When is the Secure State-Reconstruction Problem Hard?., 2019,,.		9

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37	Sensor Selection for Hypothesis Testing: Complexity and Greedy Algorithms. , 2019, , .		1
38	A Communication-Efficient Algorithm for Exponentially Fast Non-Bayesian Learning in Networks. , 2019, , .		12
39	A New Approach for Distributed Hypothesis Testing with Extensions to Byzantine-Resilience. , 2019, , .		15
40	Multi-Robot Routing for Persistent Monitoring with Latency Constraints. , 2019, , .		17
41	Optimal Sequencing Policies for Recovery of Physical Infrastructure After Disasters. , 2019, , .		6
42	Approximation algorithms for the recovery of infrastructure after disasters under precedence constraints. IFAC-PapersOnLine, 2019, 52, 175-180.	0.9	3
43	Resilience for Consensus-based Distributed Algorithms in Hostile Environmentâ€. , 2019, , .		0
44	Resilient distributed state estimation with mobile agents: overcoming Byzantine adversaries, communication losses, and intermittent measurements. Autonomous Robots, 2019, 43, 743-768.	4.8	34
45	The Impacts of Behavioral Probability Weighting on Security Investments in Interdependent Systems. , 2019, , .		7
46	Distributed Observers for LTI Systems. IEEE Transactions on Automatic Control, 2018, 63, 3689-3704.	5.7	124
47	Robustness of Leader–Follower Networked Dynamical Systems. IEEE Transactions on Control of Network Systems, 2018, 5, 1752-1763.	3.7	37
48	Interdependent Security Games on Networks Under Behavioral Probability Weighting. IEEE Transactions on Control of Network Systems, 2018, 5, 262-273.	3.7	41
49	Optimal Sensor Placement for Kalman Filtering in Stochastically Forced Consensus Networks. , 2018, ,		4
50	Resilience against Misbehaving Nodes in Self-triggered Coordination Networks. , 2018, , .		6
51	On the Location of the Minimizer of the Sum of Two Strongly Convex Functions. , 2018, , .		2
52	On the Impact of Trusted Nodes in Resilient Distributed State Estimation of LTI Systems. , 2018, , .		15
53	A Novel Switched Linear Observer for Estimating the State of a Dynamical Process with a Mobile Agent. , 2018, , .		1
54	Sensor Selection and Removal for State Estimation of Linear Systems with Unknown Inputs. , 2018, , .		0

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55	Min-Max Tours for Task Allocation to Heterogeneous Agents. , 2018, , .		7
56	Graph-Theoretic Analysis of Estimators for Stochastically-Driven Diffusive Network Processes. , 2018, , .		5
57	Secure Distributed State Estimation of an LTI System Over Time-Varying Networks and Analog Erasure Channels. , 2018, , .		19
58	Distributed Finite-Time Optimization. , 2018, , .		10
59	On the Complexity and Approximability of Optimal Sensor Selection for Kalman Filtering. , 2018, , .		12
60	A Game-Theoretic Framework for Securing Interdependent Assets in Networks. Static and Dynamic Game Theory: Foundations and Applications, 2018, , 157-184.	0.6	9
61	Sensor selection for Kalman filtering of linear dynamical systems: Complexity, limitations and greedy algorithms. Automatica, 2017, 78, 202-210.	5.0	116
62	The Game-Theoretic Formation of Interconnections Between Networks. IEEE Journal on Selected Areas in Communications, 2017, 35, 341-352.	14.0	5
63	Delayed unknown input observers for discrete-time linear systems with guaranteed performance. Systems and Control Letters, 2017, 103, 9-15.	2.3	28
64	Spectral and structural properties of random interdependent networks. Automatica, 2017, 83, 234-242.	5.0	14
65	Distributed functional observers for LTI systems. , 2017, , .		6
66	An approach for distributed state estimation of LTI systems. , 2016, , .		20
67	Optimal network topologies for mitigating security and epidemic risks. , 2016, , .		4
68	Ignoring extreme opinions in complex networks: The impact of heterogeneous thresholds. , 2016, , .		3
69	Secure local filtering algorithms for distributed optimization. , 2016, , .		8
70	Secure distributed observers for a class of linear time invariant systems in the presence of Byzantine adversaries. , $2016, , .$		36
71	State and unknown input observers for discrete-time nonlinear systems. , 2016, , .		18
72	Controlling human utilization of shared resources via taxes. , 2016, , .		4

#	Article	IF	CITATIONS
73	Fragility of the commons under prospect-theoretic risk attitudes. Games and Economic Behavior, 2016, 98, 135-164.	0.8	29
74	Distributed unknown input observers for interconnected nonlinear systems. , 2016, , .		7
75	Pricing schemes in processor sharing systems. Telecommunication Systems, 2016, 63, 421-435.	2.5	O
76	Coherence and convergence rate in networked dynamical systems. , 2015, , .		13
77	Consensus-based distributed optimization with malicious nodes. , 2015, , .		34
78	Robustness and Algebraic Connectivity of Random Interdependent Networks. IFAC-PapersOnLine, 2015, 48, 252-257.	0.9	18
79	Sensor selection for optimal filtering of linear dynamical systems: Complexity and approximation. , 2015, , .		15
80	The Strategic Formation of Multi-Layer Networks. IEEE Transactions on Network Science and Engineering, 2015, 2, 164-178.	6.4	18
81	On the Smallest Eigenvalue of Grounded Laplacian Matrices. IEEE Transactions on Automatic Control, 2015, , 1-1.	5.7	22
82	A Notion of Robustness in Complex Networks. IEEE Transactions on Control of Network Systems, 2015, 2, 310-320.	3.7	114
83	State estimation for linear systems with unknown inputs: Unknown input norm-observers and BIBOBS stability., 2015,,.		0
84	Interdependent Security Games Under Behavioral Probability Weighting. Lecture Notes in Computer Science, 2015, , 150-169.	1.3	3
85	Design of communication networks for distributed computation with privacy guarantees., 2014,,.		35
86	Stability of dynamical systems on a graph. , 2014, , .		7
87	Multi-layer network formation via a Colonel Blotto game. , 2014, , .		7
88	Spectral properties of the grounded Laplacian matrix with applications to consensus in the presence of stubborn agents. , 2014 , , .		36
89	Partially decentralized control of large-scale variable-refrigerant-flow systems in buildings. Journal of Process Control, 2014, 24, 798-819.	3.3	22
90	Resilient Asymptotic Consensus in Robust Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 766-781.	14.0	468

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91	Resource sharing games with failures and heterogeneous risk attitudes. , 2013, , .		1
92	An Efficient Periodic Resource Supply Model for Workloads with Transient Overloads. , 2013, , .		5
93	Topological Conditions for In-Network Stabilization of Dynamical Systems. IEEE Journal on Selected Areas in Communications, 2013, 31, 794-807.	14.0	26
94	Structural Controllability and Observability of Linear Systems Over Finite Fields With Applications to Multi-Agent Systems. IEEE Transactions on Automatic Control, 2013, 58, 60-73.	5.7	79
95	Distributed Autonomous Online Learning: Regrets and Intrinsic Privacy-Preserving Properties. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 2483-2493.	5.7	168
96	Distributed dominating sets on grids. , 2013, , .		7
97	Strategic multi-layer network formation. , 2013, , .		5
98	Resilient continuous-time consensus in fractional robust networks. , 2013, , .		22
99	Stabilizability over deterministic relay networks. , 2013, , .		2
100	HMM-based characterization of channel behavior for networked control systems. , 2012, , .		0
101	Closing the loop., 2012,,.		21
102	Robustness of complex networks with implications for consensus and contagion. , 2012, , .		29
103	Robustness of information diffusion algorithms to locally bounded adversaries. , 2012, , .		51
104	A simple median-based resilient consensus algorithm. , 2012, , .		29
105	Stability analysis for decentralized control of multi-evaporator vapor-compression cycle systems. , 2012, , .		2
106	A control-theoretic approach to disseminating values and overcoming malicious links in wireless networks. Automatica, 2012, 48, 2894-2901.	5.0	27
107	Predictable revenue under processor sharing. , 2012, , .		2
108	Consensus of multi-agent networks in the presence of adversaries using only local information. , 2012, , .		68

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109	The Wireless Control Network: A New Approach for Control Over Networks. IEEE Transactions on Automatic Control, 2011, 56, 2305-2318.	5.7	137
110	Distributed Function Calculation via Linear Iterative Strategies in the Presence of Malicious Agents. IEEE Transactions on Automatic Control, 2011, 56, 1495-1508.	5.7	371
111	Reputation-based networked control with data-corrupting channels. , 2011, , .		6
112	Robust heterogeneous data center design. Performance Evaluation Review, 2011, 39, 28-30.	0.6	15
113	Network synthesis for dynamical system stabilization. , 2011, , .		4
114	Topological conditions for wireless control networks., 2011,,.		30
115	The Wireless Control Network: Synthesis and robustness. , 2010, , .		22
116	Control of quantized multi-agent systems with linear nearest neighbor rules: A finite field approach. , 2010, , .		2
117	The wireless control network: Monitoring for malicious behavior. , 2010, , .		52
118	Symposium and Control and Modeling of Alternative Energy Systems [Conference Reports]. IEEE Control Systems, 2010, 30, 87-89.	0.8	0
119	Information dissemination in networks via linear iterative strategies over finite fields., 2009,,.		4
120	Linear iterative strategies for transmitting streams of values through sensor networks. , 2009, , .		1
121	Partial state observers for linear systems with unknown inputs. Automatica, 2008, 44, 3126-3132.	5.0	36
122	Fault-Tolerant Convolution Via Chinese Remainder Codes Constructed From Non-Coprime Moduli. IEEE Transactions on Signal Processing, 2008, 56, 4244-4254.	5.3	15
123	Distributed function calculation and consensus using linear iterative strategies. IEEE Journal on Selected Areas in Communications, 2008, 26, 650-660.	14.0	126
124	Distributed calculation of linear functions in noisy networks via linear iterations. , 2008, , .		3
125	Distributed function calculation via linear iterations in the presence of malicious agents & amp; #x2014; Part I: Attacking the network. , 2008, , .		44
126	Distributed function calculation via linear iterations in the presence of malicious agents & amp; #x2014; Part II: Overcoming malicious behavior., 2008,,.		32

#	Article	IF	CITATIONS
127	Distributed consensus and linear functional calculation in networks. , 2007, , .		14
128	Finite-Time Distributed Consensus in Graphs with Time-Invariant Topologies. Proceedings of the American Control Conference, 2007, , .	0.0	116
129	Delayed Observers for Linear Systems With Unknown Inputs. IEEE Transactions on Automatic Control, 2007, 52, 334-339.	5.7	120
130	Designing Stable Inverters and State Observers for Switched Linear Systems with Unknown Inputs. , 2006, , .		23
131	Error detection and correction in switched linear controllers via periodic and non-concurrent checks. Automatica, 2006, 42, 383-391.	5.0	4
132	Optimal State Estimators for Linear Systems with Unknown Inputs. , 2006, , .		11