Yilin Mo

List of Publications by Year in Descending Order

83 papers	3,885 citations	24 h-index	62 g-index
91 ext. papers	4,803 ext. citations	4.4 avg, IF	6.08 L-index

#	Paper	IF	Citations
83	A Distributed Implementation of Steady-State Kalman Filter **2021**,		2
82	The Vulnerability of Cyber-Physical System Under Stealthy Attacks. *IEEE Transactions on Automatic Control*, **2021**, 66, 637-650	5.9	24
81	Stochastic Event-Based Sensor Schedules for Remote State Estimation in Cognitive Radio Sensor Networks. *IEEE Transactions on Automatic Control*, **2021**, 66, 2407-2414	5.9	4
80	Joint Sensor and Actuator Placement for Infinite-Horizon LQG Control. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	2
79	Active Detection Against Replay Attack: A Survey on Watermark Design for Cyber-Physical Systems. *Lecture Notes in Control and Information Sciences*, **2021**, 145-171	0.5	2
78	Local Decomposition of Kalman Filters and its Application for Secure State Estimation. *IEEE Transactions on Automatic Control*, **2021**, 66, 5037-5044	5.9	1
77	Secure State Estimation With Byzantine Sensors: A Probabilistic Approach. *IEEE Transactions on Automatic Control*, **2020**, 65, 3742-3757	5.9	9
76	Remote State Estimation With Stochastic Event-Triggered Sensor Schedule and Packet Drops. *IEEE Transactions on Automatic Control*, **2020**, 65, 4981-4988	5.9	10
75	Resilient Control in Cyber-Physical Systems: Countering Uncertainty, Constraints, and Adversarial Behavior. *Foundations and Trends in Systems and Control*, **2020**, 7, 1-252	4	3
74	A Safe Kernel Approach for Resilient Multi-Dimensional Consensus. *IFAC-PapersOnLine*, **2020**, 53, 2507-2512	5.7	0
73	Distributed Consensus Over Markovian Packet Loss Channels. *IEEE Transactions on Automatic Control*, **2020**, 65, 279-286	5.9	5
72	Whittle Index Policy for Dynamic Multichannel Allocation in Remote State Estimation. *IEEE Transactions on Automatic Control*, **2020**, 65, 591-603	5.9	13
71	Security for cyber-physical systems: Secure control against known-plaintext attack. *Science China Technological Sciences*, **2020**, 63, 1637-1646	3.5	3
70	On the Performance Analysis of Reset Attack in Cyber-Physical Systems. *IEEE Transactions on Automatic Control*, **2020**, 65, 419-425	5.9	18
69	An Online Approach to Physical Watermark Design. *IEEE Transactions on Automatic Control*, **2020**, 65, 3895-3902	5.9	10
68	A Tutorial on Detecting Security Attacks on Cyber-Physical Systems **2019**,		5
67	Remote State Estimation with Stochastic Event-triggered Sensor Schedule in the Presence of Packet Drops **2019**,		2

66	Game Theoretical Approach to Sequential Hypothesis Test with Byzantine Sensors **2019**,		3
65	Convex Optimization Based State Estimation Against Sparse Integrity Attacks. *IEEE Transactions on Automatic Control*, **2019**, 64, 2383-2395	5.9	19
64	. *IEEE Transactions on Signal Processing*, **2018**, 66, 1454-1468	4.8	13
63	Attack-Resilient $\mathcal{H}_2$, $\mathcal{H}_\infty$, and ℓ_1 State Estimator. *IEEE Transactions on Automatic Control*, **2018**, 63, 4353-4360	5.9	29
62	Multiple Hypothesis Testing in Adversarial Environments: A Game-theoretic Approach **2018**,		1
61	An On-line Design of Physical Watermarks **2018**,		4
60	Distributed Consensus over Markovian Packet Loss Channels. *IFAC-PapersOnLine*, **2018**, 51, 94-99	0.7	0
59	Secure Static State Estimation: A Large Deviation Approach. *IFAC-PapersOnLine*, **2018**, 51, 289-294	0.7	1
58	. *IEEE Transactions on Signal Processing*, **2018**, 66, 4450-4460	4.8	5
57	Privacy Preserving Average Consensus. *IEEE Transactions on Automatic Control*, **2017**, 62, 753-765	5.9	152
56	Mean Square Stabilization of Linear Discrete-Time Systems Over Power-Constrained Fading Channels. *IEEE Transactions on Automatic Control*, **2017**, 62, 6505-6512	5.9	13
55	On Stochastic Sensor Network Scheduling for Multiple Processes. *IEEE Transactions on Automatic Control*, **2017**, 62, 6633-6640	5.9	11
54	Security analysis of continuous-time cyber-physical system against sensor attacks **2017**,		2
53	Sequential detection in adversarial environment **2017**,		4
52	Secure Dynamic State Estimation by Decomposing Kalman Filter. *IFAC-PapersOnLine*, **2017**, 50, 7351-7356	.7	12
51	Secure and privacy preserving average consensus **2017**,		4
50	On the Performance Degradation of Cyber-Physical Systems Under Stealthy Integrity Attacks. *IEEE Transactions on Automatic Control*, **2016**, 61, 2618-2624	5.9	177
49	Multi-Sensor Scheduling for State Estimation With Event-Based, Stochastic Triggers. *IEEE Transactions on Automatic Control*, **2016**, 61, 2695-2701	5.9	60

48	An Opportunistic Sensor Scheduling Solution to Remote State Estimation Over Multiple Channels. *IEEE Transactions on Signal Processing*, **2016**, 64, 4905-4917	4.8	9
47	Stochastic sensor scheduling for multiple dynamical processes over a shared channel **2016**,		2
46	Secure dynamic state estimation via local estimators **2016**,		24
45	Resilience and Performance Analysis for State Estimation against Integrity Attacks. *IFAC-PapersOnLine*, **2016**, 49, 55-60	0.7	5
44	Mean square stabilization of vector LTI systems over power constrained lossy channels **2016**,		3
43	Towards a unified resilience analysis: State estimation against integrity attacks **2016**,		5
42	Physical Authentication of Control Systems: Designing Watermarked Control Inputs to Detect Counterfeit Sensor Outputs. *IEEE Control Systems*, **2015**, 35, 93-109	2.9	235
41	. *IEEE Transactions on Automatic Control*, **2015**, 60, 1145-1151	5.9	98
40	Security in cyber-physical systems: Controller design against Known-Plaintext Attack **2015**,		11
39	Stochastic Event-Triggered Sensor Schedule for Remote State Estimation. *IEEE Transactions on Automatic Control*, **2015**, 60, 2661-2675	5.9	177
38	An iterative abstraction algorithm for reactive correct-by-construction controller synthesis **2015**,		3
37	Privacy Preserving Maximum Consensus **2015**,		20
36	Multi-dimensional state estimation in adversarial environment **2015**,		5
35	Dynamic state estimation in the presence of compromised sensory data **2015**,		11
34	Detecting Integrity Attacks on SCADA Systems. *IEEE Transactions on Control Systems Technology*, **2014**, 22, 1396-1407	4.8	280
33	. *IEEE Transactions on Signal Processing*, **2014**, 62, 31-43	4.8	42
32	Modeling impact of attacks, recovery, and attackability conditions for situational awareness **2014**,		10
31	On infinite-horizon sensor scheduling. *Systems and Control Letters*, **2014**, 67, 65-70	2.4	25

30	Detecting integrity attacks on control systems using robust physical watermarking **2014**,		48
29	Detection in Adversarial Environments. *IEEE Transactions on Automatic Control*, **2014**, 59, 3209-3223	5.9	66
28	Privacy preserving average consensus **2014**,		14
27	Optimal DoS attacks on Bayesian quickest change detection **2014**,		7
26	Stochastic event-triggered sensor scheduling for remote state estimation **2013**,		6
25	Secure Detection Using Binary Sensors. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 160-167		
24	Multi-Sensor Scheduling for State Estimation with Event-Based, Stochastic Triggers*. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 15-22		4
23	Minimum Robust Sensor Placement for Large Scale Linear Time-Invariant Systems: A Structured Systems Approach*. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 417-424		9
22	LQG control with Markovian packet loss **2013**,		25
21	Cyber‑Physical Security of a Smart Grid Infrastructure. *Proceedings of the IEEE*, **2012**, 100, 195-209	14.3	557
20	Kalman Filtering With Intermittent Observations: Tail Distribution and Critical Value. *IEEE Transactions on Automatic Control*, **2012**, 57, 677-689	5.9	83
19	Integrity attacks on cyber-physical systems **2012**,		61
18	On Optimal Partial Broadcasting of Wireless Sensor Networks for Kalman Filtering. *IEEE Transactions on Automatic Control*, **2012**, 57, 715-721	5.9	18
17	Infinite-horizon sensor scheduling for estimation over lossy networks **2012**,		7
16	**2012**,		1
15	Detecting Integrity Attacks on SCADA Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 11239-11244		16
14	Kalman Filtering with Intermittent Observations: Critical Value for Second Order System. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 6592-6597		6
13	Penalized Fisher Discriminant Analysis and Its Application to Image-Based Morphometry. *Pattern Recognition Letters*, **2011**, 32, 2128-2135	4.7	21

12	Integrity Data Attacks in Power Market Operations. *IEEE Transactions on Smart Grid*, **2011**, 2, 659-666	10.7	307
11	Stochastic Sensor Scheduling for Energy Constrained Estimation in Multi-Hop Wireless Sensor Networks. *IEEE Transactions on Automatic Control*, **2011**, 56, 2489-2495	5.9	41
10	Sensor selection strategies for state estimation in energy constrained wireless sensor networks. *Automatica*, **2011**, 47, 1330-1338	5.7	130
9	Sensor scheduling over a packet-delaying network. *Automatica*, **2011**, 47, 1089-1092	5.7	16
8	False data injection attacks against state estimation in wireless sensor networks **2010**,		203
7	Sensor scheduling for energy constrained estimation in multi-hop Wireless Sensor Networks **2010**,		2
6	False Data Injection Attacks in Electricity Markets **2010**,		223
5	Communication Complexity and Energy Efficient Consensus Algorithm. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 209-214		1
4	A convex optimization approach of multi-step sensor selection under correlated noise **2009**,		6
3	Secure control against replay attacks **2009**,		365
2	Network Energy Minimization via Sensor Selection and Topology Control*. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 174-179		4
1	A characterization of the critical value for Kalman filtering with intermittent observations **2008**,		50