Yilin Mo

List of Publications by Citations

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	Cyber‑Physical Security of a Smart Grid Infrastructure. *Proceedings of the IEEE*, **2012**, 100, 195-209	14.3	557
82	Secure control against replay attacks **2009**,		365
81	Integrity Data Attacks in Power Market Operations. *IEEE Transactions on Smart Grid*, **2011**, 2, 659-666	10.7	307
80	Detecting Integrity Attacks on SCADA Systems. *IEEE Transactions on Control Systems Technology*, **2014**, 22, 1396-1407	4.8	280
79	Physical Authentication of Control Systems: Designing Watermarked Control Inputs to Detect Counterfeit Sensor Outputs. *IEEE Control Systems*, **2015**, 35, 93-109	2.9	235
78	False Data Injection Attacks in Electricity Markets **2010**,		223
77	False data injection attacks against state estimation in wireless sensor networks **2010**,		203
76	On the Performance Degradation of Cyber-Physical Systems Under Stealthy Integrity Attacks. *IEEE Transactions on Automatic Control*, **2016**, 61, 2618-2624	5.9	177
75	Stochastic Event-Triggered Sensor Schedule for Remote State Estimation. *IEEE Transactions on Automatic Control*, **2015**, 60, 2661-2675	5.9	177
74	Privacy Preserving Average Consensus. *IEEE Transactions on Automatic Control*, **2017**, 62, 753-765	5.9	152
73	Sensor selection strategies for state estimation in energy constrained wireless sensor networks. *Automatica*, **2011**, 47, 1330-1338	5.7	130
72	. *IEEE Transactions on Automatic Control*, **2015**, 60, 1145-1151	5.9	98
71	Kalman Filtering With Intermittent Observations: Tail Distribution and Critical Value. *IEEE Transactions on Automatic Control*, **2012**, 57, 677-689	5.9	83
70	Detection in Adversarial Environments. *IEEE Transactions on Automatic Control*, **2014**, 59, 3209-3223	5.9	66
69	Integrity attacks on cyber-physical systems **2012**,		61
68	Multi-Sensor Scheduling for State Estimation With Event-Based, Stochastic Triggers. *IEEE Transactions on Automatic Control*, **2016**, 61, 2695-2701	5.9	60
67	A characterization of the critical value for Kalman filtering with intermittent observations **2008**,		50

66	Detecting integrity attacks on control systems using robust physical watermarking **2014**,		48
65	. *IEEE Transactions on Signal Processing*, **2014**, 62, 31-43	4.8	42
64	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
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	On infinite-horizon sensor scheduling. *Systems and Control Letters*, **2014**, 67, 65-70	2.4	25
61	LQG control with Markovian packet loss **2013**,		25
60	Secure dynamic state estimation via local estimators **2016**,		24
59	The Vulnerability of Cyber-Physical System Under Stealthy Attacks. *IEEE Transactions on Automatic Control*, **2021**, 66, 637-650	5.9	24
58	Penalized Fisher Discriminant Analysis and Its Application to Image-Based Morphometry. *Pattern Recognition Letters*, **2011**, 32, 2128-2135	4.7	21
57	Privacy Preserving Maximum Consensus **2015**,		20
56	Convex Optimization Based State Estimation Against Sparse Integrity Attacks. *IEEE Transactions on Automatic Control*, **2019**, 64, 2383-2395	5.9	19
55	On Optimal Partial Broadcasting of Wireless Sensor Networks for Kalman Filtering. *IEEE Transactions on Automatic Control*, **2012**, 57, 715-721	5.9	18
54	On the Performance Analysis of Reset Attack in Cyber-Physical Systems. *IEEE Transactions on Automatic Control*, **2020**, 65, 419-425	5.9	18
53	Detecting Integrity Attacks on SCADA Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 11239-11244		16
52	Sensor scheduling over a packet-delaying network. *Automatica*, **2011**, 47, 1089-1092	5.7	16
51	Privacy preserving average consensus **2014**,		14
50	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
49	. *IEEE Transactions on Signal Processing*, **2018**, 66, 1454-1468	4.8	13

| 48 | Whittle Index Policy for Dynamic Multichannel Allocation in Remote State Estimation. *IEEE Transactions on Automatic Control*, **2020**, 65, 591-603 | 5.9 | 13 |

| 47 | Secure Dynamic State Estimation by Decomposing Kalman Filter. *IFAC-PapersOnLine*, **2017**, 50, 7351-7356.7 | | 12 |

| 46 | On Stochastic Sensor Network Scheduling for Multiple Processes. *IEEE Transactions on Automatic Control*, **2017**, 62, 6633-6640 | 5.9 | 11 |

| 45 | Security in cyber-physical systems: Controller design against Known-Plaintext Attack **2015**, | | 11 |

| 44 | Dynamic state estimation in the presence of compromised sensory data **2015**, | | 11 |

| 43 | Remote State Estimation With Stochastic Event-Triggered Sensor Schedule and Packet Drops. *IEEE Transactions on Automatic Control*, **2020**, 65, 4981-4988 | 5.9 | 10 |

| 42 | Modeling impact of attacks, recovery, and attackability conditions for situational awareness **2014**, | | 10 |

| 41 | An Online Approach to Physical Watermark Design. *IEEE Transactions on Automatic Control*, **2020**, 65, 3895-3902 | 5.9 | 10 |

| 40 | Secure State Estimation With Byzantine Sensors: A Probabilistic Approach. *IEEE Transactions on Automatic Control*, **2020**, 65, 3742-3757 | 5.9 | 9 |

| 39 | 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 |

| 38 | An Opportunistic Sensor Scheduling Solution to Remote State Estimation Over Multiple Channels. *IEEE Transactions on Signal Processing*, **2016**, 64, 4905-4917 | 4.8 | 9 |

| 37 | Optimal DoS attacks on Bayesian quickest change detection **2014**, | | 7 |

| 36 | Infinite-horizon sensor scheduling for estimation over lossy networks **2012**, | | 7 |

| 35 | Stochastic event-triggered sensor scheduling for remote state estimation **2013**, | | 6 |

| 34 | 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 |

| 33 | A convex optimization approach of multi-step sensor selection under correlated noise **2009**, | | 6 |

| 32 | A Tutorial on Detecting Security Attacks on Cyber-Physical Systems **2019**, | | 5 |

| 31 | Multi-dimensional state estimation in adversarial environment **2015**, | | 5 |

30	Distributed Consensus Over Markovian Packet Loss Channels. *IEEE Transactions on Automatic Control*, **2020**, 65, 279-286	5.9	5
29	Resilience and Performance Analysis for State Estimation against Integrity Attacks. *IFAC-PapersOnLine*, **2016**, 49, 55-60	0.7	5
28	Towards a unified resilience analysis: State estimation against integrity attacks **2016**,		5
27	*. IEEE Transactions on Signal Processing*, **2018**, 66, 4450-4460	4.8	5
26	Sequential detection in adversarial environment **2017**,		4
25	Secure and privacy preserving average consensus **2017**,		4
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	Network Energy Minimization via Sensor Selection and Topology Control*. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 174-179		4
22	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
21	An On-line Design of Physical Watermarks **2018**,		4
20	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
19	An iterative abstraction algorithm for reactive correct-by-construction controller synthesis **2015**,		3
18	Security for cyber-physical systems: Secure control against known-plaintext attack. *Science China Technological Sciences*, **2020**, 63, 1637-1646	3.5	3
17	Mean square stabilization of vector LTI systems over power constrained lossy channels **2016**,		3
16	Game Theoretical Approach to Sequential Hypothesis Test with Byzantine Sensors **2019**,		3
15	Security analysis of continuous-time cyber-physical system against sensor attacks **2017**,		2
14	Sensor scheduling for energy constrained estimation in multi-hop Wireless Sensor Networks **2010**,		2
13	A Distributed Implementation of Steady-State Kalman Filter **2021**,		2

12	Stochastic sensor scheduling for multiple dynamical processes over a shared channel **2016**,		2
11	Remote State Estimation with Stochastic Event-triggered Sensor Schedule in the Presence of Packet Drops **2019**,		2
10	Joint Sensor and Actuator Placement for Infinite-Horizon LQG Control. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	2
9	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
8	**2012**,		1
7	Communication Complexity and Energy Efficient Consensus Algorithm. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 209-214		1
6	Multiple Hypothesis Testing in Adversarial Environments: A Game-theoretic Approach **2018**,		1
5	Secure Static State Estimation: A Large Deviation Approach. *IFAC-PapersOnLine*, **2018**, 51, 289-294	0.7	1
4	Local Decomposition of Kalman Filters and its Application for Secure State Estimation. *IEEE Transactions on Automatic Control*, **2021**, 66, 5037-5044	5.9	1
3	A Safe Kernel Approach for Resilient Multi-Dimensional Consensus. *IFAC-PapersOnLine*, **2020**, 53, 2507-2512	0.7	0
2	Distributed Consensus over Markovian Packet Loss Channels. *IFAC-PapersOnLine*, **2018**, 51, 94-99	0.7	0
1	Secure Detection Using Binary Sensors. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 160-167		