

Andr M H Teixeira

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58
papers

2,488
citations

18
h-index

49
g-index

63
ext. papers

3,145
ext. citations

3.4
avg, IF

5.4
L-index

#	Paper	IF	Citations
58	Privatized Distributed Anomaly Detection for Large-Scale Nonlinear Uncertain Systems. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 5299-5313	5.9	2
57	A Switching Multiplicative Watermarking Scheme for Detection of Stealthy Cyber-Attacks. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 2558-2573	5.9	9
56	Security Metrics for Control Systems. <i>Lecture Notes in Control and Information Sciences</i> , 2021 , 99-121	0.5	0
55	Introduction to the Book. <i>Lecture Notes in Control and Information Sciences</i> , 2021 , 1-8	0.5	
54	Detection of Cyber-Attacks: A Multiplicative Watermarking Scheme. <i>Lecture Notes in Control and Information Sciences</i> , 2021 , 173-201	0.5	1
53	Actuator Security Indices Based on Perfect Undetectability: Computation, Robustness, and Sensor Placement. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 3816-3831	5.9	8
52	Joint controller and detector design against data injection attacks on actuators. <i>IFAC-PapersOnLine</i> , 2020 , 53, 7439-7445	0.7	0
51	Security measure allocation for industrial control systems: Exploiting systematic search techniques and submodularity. <i>International Journal of Robust and Nonlinear Control</i> , 2020 , 30, 4278-4302	3.6	2
50	A Tutorial Introduction to Security and Privacy for Cyber-Physical Systems 2019 ,		27
49	Combining Bayesian Networks and Fishbone Diagrams to Distinguish Between Intentional Attacks and Accidental Technical Failures. <i>Lecture Notes in Computer Science</i> , 2019 , 31-50	0.9	1
48	Effects of Jamming Attacks on a Control System With Energy Harvesting 2019 , 3, 829-834		6
47	Optimal stealthy attacks on actuators for strictly proper systems 2019 ,		2
46	On the Confidentiality of Linear Anomaly Detector States 2019 ,		2
45	Cyber Risk Analysis of Combined Data Attacks Against Power System State Estimation. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 3044-3056	10.7	41
44	. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 1517-1528	4	12
43	Differentially-Private Distributed Fault Diagnosis for Large-Scale Nonlinear Uncertain Systems. <i>IFAC-PapersOnLine</i> , 2018 , 51, 975-982	0.7	4
42	Detection of Sensor Data Injection Attacks with Multiplicative Watermarking 2018 ,		8

41	. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 724-739	5.9	28
40	Voltage Control in Distributed Generation under Measurement Falsification Attacks * *This work is sponsored by Chinese Scholarship Council (CSC). <i>IFAC-PapersOnLine</i> , 2017 , 50, 8379-8384	0.7	1
39	Data attacks on power system state estimation: Limited adversarial knowledge vs. limited attack resources 2017 ,		3
38	Bayesian Network Models in Cyber Security: A Systematic Review. <i>Lecture Notes in Computer Science</i> , 2017 , 105-122	0.9	11
37	Detection and isolation of routing attacks through sensor watermarking 2017 ,		12
36	Detection and Isolation of Replay Attacks through Sensor Watermarking * *This work has received funding from the European Union Seventh Framework Programme (FP7/2007-2013) under grant agreement no. 608224 and from H2020 Programme under grant no. 707546 (SURE).. <i>IFAC-PapersOnLine</i> , 2017 , 50, 7363-7368	0.7	23
35	Co-simulation for cyber security analysis: Data attacks against energy management system 2017 ,		12
34	Integrated Safety and Security Risk Assessment Methods: A Survey of Key Characteristics and Applications. <i>Lecture Notes in Computer Science</i> , 2017 , 50-62	0.9	21
33	Cyber-Physical-Security Framework for Building Energy Management System 2016 ,		10
32	The ADMM Algorithm for Distributed Quadratic Problems: Parameter Selection and Constraint Preconditioning. <i>IEEE Transactions on Signal Processing</i> , 2016 , 64, 290-305	4.8	20
31	Combined data integrity and availability attacks on state estimation in cyber-physical power grids 2016 ,		8
30	Cybersecurity as a Politikum 2016 ,		4
29	From control system security indices to attack identifiability 2016 ,		14
28	Voltage control for interconnected microgrids under adversarial actions 2015 ,		21
27	A secure control framework for resource-limited adversaries. <i>Automatica</i> , 2015 , 51, 135-148	5.7	550
26	Optimal Parameter Selection for the Alternating Direction Method of Multipliers (ADMM): Quadratic Problems. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 644-658	5.9	244
25	Cyber-Secure and Resilient Architectures for Industrial Control Systems 2015 , 149-183		2
24	Strategic stealthy attacks: The output-to-output \mathcal{H}_2 -gain 2015 ,		6

23	. <i>IEEE Control Systems</i> , 2015 , 35, 24-45	2.9	152
22	Security of smart distribution grids: Data integrity attacks on integrated volt/VAR control and countermeasures 2014 ,		34
21	The ADMM algorithm for distributed averaging: Convergence rates and optimal parameter selection 2014 ,		7
20	A down-sampled controller to reduce network usage with guaranteed closed-loop performance 2014 ,		12
19	Distributed fault detection and isolation resilient to network model uncertainties. <i>IEEE Transactions on Cybernetics</i> , 2014 , 44, 2024-37	10.2	96
18	Gaussian cheap talk game with quadratic cost functions: When herding between strategic senders is a virtue 2014 ,		7
17	Optimal scaling of the ADMM algorithm for distributed quadratic programming 2013 ,		16
16	Distributed actuator reconfiguration in networked control systems*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 61-68		3
15	Quantifying Cyber-Security for Networked Control Systems. <i>Lecture Notes in Control and Information Sciences</i> , 2013 , 123-142	0.5	12
14	Fault Detection and Mitigation in Kirchhoff Networks. <i>IEEE Signal Processing Letters</i> , 2012 , 19, 749-752	3.2	3
13	Agents misbehaving in a network: a vice or a virtue?. <i>IEEE Network</i> , 2012 , 26, 35-40	11.4	9
12	Cyber-security of SCADA systems 2012 ,		8
11	Distributed Fault Detection and Isolation with imprecise network models 2012 ,		4
10	Revealing stealthy attacks in control systems 2012 ,		136
9	Optimal power flow: Closing the loop over corrupted data 2012 ,		18
8	Attack models and scenarios for networked control systems 2012 ,		220
7	On the Optimal Step-size Selection for the Alternating Direction Method of Multipliers*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 139-144		10
6	A Cyber Security Study of a SCADA Energy Management System: Stealthy Deception Attacks on the State Estimator*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 11271-11277		35

- 5 Distributed fault detection for interconnected second-order systems. *Automatica*, **2011**, 47, 2757-2764 5.7 269
- 4 Dynamical system decomposition using dissipation inequalities **2011**, 5
- 3 Networked control systems under cyber attacks with applications to power networks **2010**, 96
- 2 Cyber security analysis of state estimators in electric power systems **2010**, 214
- 1 Distributed Leader Selection without Direct Inter-agent Communication. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 221-226 7