

Eman Hammad

List of Publications by Year in Descending Order

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Version: 2024-04-19

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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.

45
papers

472
citations

12
h-index

20
g-index

53
ext. papers

625
ext. citations

7
avg, IF

4.47
L-index

#	Paper	IF	Citations
45	Risk-Aware Cyber-Physical Control for Resilient Smart Cities 2022 , 95-122		
44	5G Security Challenges and Opportunities: A System Approach 2020 ,		8
43	Resilient Cooperative Microgrid Networks. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 1539-1548.	4.9	6
42	Mitigating Attacks With Nonlinear Dynamics on Actuators in Cyber-Physical Mechatronic Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 4845-4856	11.9	9
41	Implementation and development of an offline co-simulation testbed for studies of power systems cyber security and control verification. <i>International Journal of Electrical Power and Energy Systems</i> , 2019 , 104, 817-826	5.1	20
40	On Cyber-Physical Coupling and Distributed Control in Smart Grids. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 4418-4429	11.9	6
39	On Effective Virtual Inertia of Storage-Based Distributed Control for Transient Stability. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 327-336	10.7	27
38	A Storage-Based Multiagent Regulation Framework for Smart Grid Resilience. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 3859-3869	11.9	11
37	A Cyber-Physical Control Framework for Transient Stability in Smart Grids. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 1205-1215	10.7	62
36	A Class of Switching Exploits Based on Inter-Area Oscillations. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 4659-4668	10.7	5
35	A Distributed Control Paradigm for Smart Grid to Address Attacks on Data Integrity and Availability. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2018 , 4, 70-81	2.8	14
34	Communication Links Vulnerability Model for Cyber Security Mitigation. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2017 , 285-296	0.2	
33	Reactance perturbation for enhancing detection of FDI attacks in power system state estimation 2017 ,		5
32	Toward a practical storage-based control scheme for transient stability applications 2017 ,		1
31	Performance Metrics for Storage-Based Transient Stability Control 2017 ,		1
30	On the Impact of Cyber Attacks on Data Integrity in Storage-Based Transient Stability Control. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 3322-3333	11.9	20
29	On the Use of Energy Storage Systems and Linear Feedback Optimal Control for Transient Stability. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 1575-1585	11.9	25

28	IEC-61850 GOOSE traffic modeling and generation 2017 ,		2
27	Simplified implementation and control of a flywheel energy system for microgrid applications 2017 ,		2
26	Fundamental limits on communication latency for distributed control via electromechanical waves 2017 ,		2
25	A Game-Theoretic Analysis of Cyber Switching Attacks and Mitigation in Smart Grid Systems. <i>IEEE Transactions on Smart Grid</i> , 2016 , 7, 1846-1855	10.7	59
24	Mitigating link insecurities in smart grids via QoS multi-constraint routing 2016 ,		6
23	A Cyber-Enabled Stabilizing Control Scheme for Resilient Smart Grid Systems. <i>IEEE Transactions on Smart Grid</i> , 2016 , 7, 1856-1865	10.7	39
22	Network-Aware QoS Routing for Smart Grids Using Software Defined Networks. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2016 , 384-394 ^{0.2}		6
21	Enhancing the performance of controlled distributed energy resources in noisy communication environments 2016 ,		1
20	On the effects of distributed control area design for the stabilization of cyber-enabled smart grids 2015 ,		2
19	Paradigms and performance of distributed cyber-enabled control schemes for the smart grid 2015 ,		7
18	On using distributed control schemes to mitigate switching attacks in smart grids 2015 ,		4
17	Grid-independent cooperative microgrid networks with high renewable penetration 2015 ,		5
16	Frequency-stabilizing control scheme for islanded microgrids 2015 ,		1
15	Cooperative microgrid networks for remote and rural areas 2015 ,		5
14	A systematic approach to delay-adaptive control design for smart grids 2015 ,		12
13	A cyber-enabled stabilizing controller for resilient smart grid systems 2015 ,		19
12	On using distributed energy resources to reshape the dynamics of power systems during transients 2015 ,		4
11	Tuning out of phase: Resonance attacks 2015 ,		6

10	Robustness analysis of feedback linearization distributed control schemes in smart grid systems 2015,		1
9	A resilient feedback linearization control scheme for smart grids under cyber-physical disturbances 2015,		18
8	Performance Studies for Spectrum-Sharing Cognitive Radios under Outage Probability Constraint. <i>Advances in Wireless Technologies and Telecommunication Book Series, 2015, 345-367</i>	0.2	
7	Practical limitations of sliding-mode switching attacks on smart grid systems 2014,		10
6	A game-theoretic control approach to mitigate cyber switching attacks in Smart Grid systems 2014,		12
5	Performance evaluation of flocking-based distributed cyber-physical control for Smart Grid 2014,		5
4	2014,		2
3	Impact of Quality of Service Constraints on the Performance of Spectrum Sharing Cognitive Users. <i>Wireless Personal Communications, 2013, 69, 673-688</i>	1.9	11
2	Performance of Primary Users in Spectrum Sharing Cognitive Radio Environment. <i>Wireless Personal Communications, 2013, 68, 575-585</i>	1.9	8
1	Surface noise cancellation for acoustic downhole communication systems 2013,		2