Eman Hammad

List of Publications by Citations

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	A Cyber-Physical Control Framework for Transient Stability in Smart Grids. *IEEE Transactions on Smart Grid*, **2018**, 9, 1205-1215	10.7	62
44	A Game-Theoretic Analysis of Cyber Switching Attacks and Mitigation in Smart Grid Systems. *IEEE Transactions on Smart Grid*, **2016**, 7, 1846-1855	10.7	59
43	A Cyber-Enabled Stabilizing Control Scheme for Resilient Smart Grid Systems. *IEEE Transactions on Smart Grid*, **2016**, 7, 1856-1865	10.7	39
42	On Effective Virtual Inertia of Storage-Based Distributed Control for Transient Stability. *IEEE Transactions on Smart Grid*, **2019**, 10, 327-336	10.7	27
41	On the Use of Energy Storage Systems and Linear Feedback Optimal Control for Transient Stability. *IEEE Transactions on Industrial Informatics*, **2017**, 13, 1575-1585	11.9	25
40	Implementation and development of an offline co-simulation testbed for studies of power systems cyber security and control verification. *International Journal of Electrical Power and Energy Systems*, **2019**, 104, 817-826	5.1	20
39	On the Impact of Cyber Attacks on Data Integrity in Storage-Based Transient Stability Control. *IEEE Transactions on Industrial Informatics*, **2017**, 13, 3322-3333	11.9	20
38	A cyber-enabled stabilizing controller for resilient smart grid systems **2015**,		19
37	A resilient feedback linearization control scheme for smart grids under cyber-physical disturbances **2015**,		18
36	A Distributed Control Paradigm for Smart Grid to Address Attacks on Data Integrity and Availability. *IEEE Transactions on Signal and Information Processing Over Networks*, **2018**, 4, 70-81	2.8	14
35	A systematic approach to delay-adaptive control design for smart grids **2015**,		12
34	A game-theoretic control approach to mitigate cyber switching attacks in Smart Grid systems **2014**,		12
33	A Storage-Based Multiagent Regulation Framework for Smart Grid Resilience. *IEEE Transactions on Industrial Informatics*, **2018**, 14, 3859-3869	11.9	11
32	Impact of Quality of Service Constraints on the Performance of Spectrum Sharing Cognitive Users. *Wireless Personal Communications*, **2013**, 69, 673-688	1.9	11
31	Practical limitations of sliding-mode switching attacks on smart grid systems **2014**,		10
30	Mitigating Attacks With Nonlinear Dynamics on Actuators in Cyber-Physical Mechatronic Systems. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 4845-4856	11.9	9
29	Performance of Primary Users in Spectrum Sharing Cognitive Radio Environment. *Wireless Personal Communications*, **2013**, 68, 575-585	1.9	8

28	5G Security Challenges and Opportunities: A System Approach **2020**,		8
27	Paradigms and performance of distributed cyber-enabled control schemes for the smart grid **2015**,		7
26	Mitigating link insecurities in smart grids via QoS multi-constraint routing **2016**,		6
25	Tuning out of phase: Resonance attacks **2015**,		6
24	Network-Aware QoS Routing for Smart Grids Using Software Defined Networks. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2016**, 384-394	0.2	6
23	On Cyber-Physical Coupling and Distributed Control in Smart Grids. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 4418-4429	11.9	6
22	Resilient Cooperative Microgrid Networks. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 1539-1548	11.9	6
21	Grid-independent cooperative microgrid networks with high renewable penetration **2015**,		5
20	Cooperative microgrid networks for remote and rural areas **2015**,		5
19	Reactance perturbation for enhancing detection of FDI attacks in power system state estimation **2017**,		5
18	A Class of Switching Exploits Based on Inter-Area Oscillations. *IEEE Transactions on Smart Grid*, **2018**, 9, 4659-4668	10.7	5
17	Performance evaluation of flocking-based distributed cyber-physical control for Smart Grid **2014**,		5
16	On using distributed control schemes to mitigate switching attacks in smart grids **2015**,		4
15	On using distributed energy resources to reshape the dynamics of power systems during transients **2015**,		4
14	On the effects of distributed control area design for the stabilization of cyber-enabled smart grids **2015**,		2
13	IEC-61850 GOOSE traffic modeling and generation **2017**,		2
12	Simplified implementation and control of a flywheel energy system for microgrid applications **2017**,		2
11	Fundamental limits on communication latency for distributed control via electromechanical waves **2017**,		2

10	**2014**,	2
9	Surface noise cancellation for acoustic downhole communication systems **2013**,	2
8	Frequency-stabilizing control scheme for islanded microgrids **2015**,	1
7	Toward a practical storage-based control scheme for transient stability applications **2017**,	1
6	Performance Metrics for Storage-Based Transient Stability Control **2017**,	1
5	Robustness analysis of feedback linearization distributed control schemes in smart grid systems **2015**,	1
4	Enhancing the performance of controlled distributed energy resources in noisy communication environments **2016**,	1
3	Communication Links Vulnerability Model for Cyber Security Mitigation. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2017**, 285-296	0.2
2	Performance Studies for Spectrum-Sharing Cognitive Radios under Outage Probability Constraint. *Advances in Wireless Technologies and Telecommunication Book Series*, **2015**, 345-367	0.2
1	Risk-Aware Cyber-Physical Control for Resilient Smart Cities **2022**, 95-122	