Eman Hammad

List of Publications by Year
in descending order

52 papers	759 citations	687363 13 h-index	940533 16 g-index
53 all docs	53 docs citations	53 times ranked	753 citing authors

#	Article	IF	Citations
1	A Cyber-Physical Control Framework for Transient Stability in Smart Grids. IEEE Transactions on Smart Grid, 2018, 9, 1205-1215.	9.0	95
2	A Game-Theoretic Analysis of Cyber Switching Attacks and Mitigation in Smart Grid Systems. IEEE Transactions on Smart Grid, 2016, 7, 1846-1855.	9.0	88
3	A Cyber-Enabled Stabilizing Control Scheme for Resilient Smart Grid Systems. IEEE Transactions on Smart Grid, 2016, 7, 1856-1865.	9.0	50
4	On Effective Virtual Inertia of Storage-Based Distributed Control for Transient Stability. IEEE Transactions on Smart Grid, 2019, 10, 327-336.	9.0	49
5	On the Impact of Cyber Attacks on Data Integrity in Storage-Based Transient Stability Control. IEEE Transactions on Industrial Informatics, 2017, 13, 3322-3333.	11.3	40
6	5G Security Challenges and Opportunities: A System Approach. , 2020, , .		40
7	On the Use of Energy Storage Systems and Linear Feedback Optimal Control for Transient Stability. IEEE Transactions on Industrial Informatics, 2017, 13, 1575-1585.	11.3	32
8	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.	5.5	29
9	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	23
10	A cyber-enabled stabilizing controller for resilient smart grid systems. , 2015, , .		22
11	A resilient feedback linearization control scheme for smart grids under cyber-physical disturbances. , 2015, , .		22
12	A game-theoretic control approach to mitigate cyber switching attacks in Smart Grid systems. , 2014, , .		21
13	Mitigating Attacks With Nonlinear Dynamics on Actuators in Cyber-Physical Mechatronic Systems. IEEE Transactions on Industrial Informatics, 2019, 15, 4845-4856.	11.3	18
14	A Storage-Based Multiagent Regulation Framework for Smart Grid Resilience. IEEE Transactions on Industrial Informatics, 2018, 14, 3859-3869.	11.3	16
15	On Cyber-Physical Coupling and Distributed Control in Smart Grids. IEEE Transactions on Industrial Informatics, 2019, 15, 4418-4429.	11.3	16
16	Impact of Quality of Service Constraints on the Performance of Spectrum Sharing Cognitive Users. Wireless Personal Communications, 2013, 69, 673-688.	2.7	15
17	Practical limitations of sliding-mode switching attacks on smart grid systems. , 2014, , .		15
18	A systematic approach to delay-adaptive control design for smart grids. , 2015, , .		14

#	Article	IF	Citations
19	A Class of Switching Exploits Based on Inter-Area Oscillations. IEEE Transactions on Smart Grid, 2018, 9, 4659-4668.	9.0	14
20	Performance of Primary Users in Spectrum Sharing Cognitive Radio Environment. Wireless Personal Communications, 2013, 68, 575-585.	2.7	13
21	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.	0.3	12
22	Resilient Cooperative Microgrid Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 1539-1548.	11.3	11
23	Tuning out of phase: Resonance attacks. , 2015, , .		10
24	Paradigms and performance of distributed cyber-enabled control schemes for the smart grid. , 2015, , .		9
25	Cooperative microgrid networks for remote and rural areas. , 2015, , .		9
26	On using distributed energy resources to reshape the dynamics of power systems during transients. , 2015, , .		8
27	On using distributed control schemes to mitigate switching attacks in smart grids. , 2015, , .		8
28	Grid-independent cooperative microgrid networks with high renewable penetration. , 2015, , .		7
29	Mitigating link insecurities in smart grids via QoS multi-constraint routing. , 2016, , .		7
30	Reactance perturbation for enhancing detection of FDI attacks in power system state estimation. , 2017, , .		6
31	Performance evaluation of flocking-based distributed cyber-physical control for Smart Grid. , 2014, , .		5
32	Performance of flocking-based control schemes in smart grid applications. , 2014, , .		3
33	On the effects of distributed control area design for the stabilization of cyber-enabled smart grids. , 2015, , .		3
34	Investigating the impact of intrusion detection system performance on communication latency and power system stability. , 2016, , .		3
35	IEC-61850 GOOSE traffic modeling and generation. , 2017, , .		3
36	Simplified implementation and control of a flywheel energy system for microgrid applications. , 2017, , .		3

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37	Surface noise cancellation for acoustic downhole communication systems. , 2013, , .		2
38	Robustness analysis of feedback linearization distributed control schemes in smart grid systems. , 2015, , .		2
39	Impact of Cyber Attacks on Data Integrity in Transient Stability Control. , 2017, , .		2
40	Fundamental limits on communication latency for distributed control via electromechanical waves. , 2017, , .		2
41	A Game- Theoretic Approach for Uncoordinated Access to Cognitive Resources. , 2021, , .		2
42	A Physical-Layer Security Approach for IoT Against Jamming Interference Attacks. , 2021, , .		2
43	A Deep-Defense Approach for Next -Gen Cyber - Resilient Inter-Dependent Critical Infrastructure Systems. , 2021, , .		2
44	Frequency-stabilizing control scheme for islanded microgrids. , 2015, , .		1
45	Implementation of an Offline Co-Simulation Test-Bed for Cyber Security and Control Verification. , 2016, , .		1
46	Enhancing the performance of controlled distributed energy resources in noisy communication environments. , 2016, , .		1
47	Performance Metrics for Storage-Based Transient Stability Control. , 2017, , .		1
48	A transient stability control adaptive to measurements uncertainties. , 2017, , .		1
49	Toward a practical storage-based control scheme for transient stability applications. , 2017, , .		1
50	Control verification via off-line co-simulation. , 2016, , .		0
51	Communication Links Vulnerability Model for Cyber Security Mitigation. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 285-296.	0.3	0
52	Performance Studies for Spectrum-Sharing Cognitive Radios under Outage Probability Constraint. Advances in Wireless Technologies and Telecommunication Book Series, 2015, , 345-367.	0.4	0