Abdallah Farraj

List of Publications by Year
in descending order

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31 papers	561 citations	758635 12 h-index	1199166 12 g-index
32 all docs	32 docs citations	32 times ranked	663 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.	6.2	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.	6.2	88
3	A Cyber-Enabled Stabilizing Control Scheme for Resilient Smart Grid Systems. IEEE Transactions on Smart Grid, 2016, 7, 1856-1865.	6.2	50
4	On Effective Virtual Inertia of Storage-Based Distributed Control for Transient Stability. IEEE Transactions on Smart Grid, 2019, 10, 327-336.	6.2	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.	7.2	40
6	On the Use of Energy Storage Systems and Linear Feedback Optimal Control for Transient Stability. IEEE Transactions on Industrial Informatics, 2017, 13, 1575-1585.	7.2	32
7	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.	3.3	29
8	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.	1.6	23
9	Mitigating Attacks With Nonlinear Dynamics on Actuators in Cyber-Physical Mechatronic Systems. IEEE Transactions on Industrial Informatics, 2019, 15, 4845-4856.	7.2	18
10	A Storage-Based Multiagent Regulation Framework for Smart Grid Resilience. IEEE Transactions on Industrial Informatics, 2018, 14, 3859-3869.	7.2	16
11	On Cyber-Physical Coupling and Distributed Control in Smart Grids. IEEE Transactions on Industrial Informatics, 2019, 15, 4418-4429.	7.2	16
12	A systematic approach to delay-adaptive control design for smart grids. , 2015, , .		14
13	A Class of Switching Exploits Based on Inter-Area Oscillations. IEEE Transactions on Smart Grid, 2018, 9, 4659-4668.	6.2	14
14	Tuning out of phase: Resonance attacks. , 2015, , .		10
15	Paradigms and performance of distributed cyber-enabled control schemes for the smart grid. , 2015, , .		9
16	Cooperative microgrid networks for remote and rural areas. , 2015, , .		9
17	On using distributed energy resources to reshape the dynamics of power systems during transients. , 2015, , .		8
18	On using distributed control schemes to mitigate switching attacks in smart grids. , 2015, , .		8

#	Article	IF	Citations
19	Mitigating link insecurities in smart grids via QoS multi-constraint routing. , 2016, , .		7
20	Reactance perturbation for enhancing detection of FDI attacks in power system state estimation. , 2017, , .		6
21	On the effects of distributed control area design for the stabilization of cyber-enabled smart grids. , 2015, , .		3
22	IEC-61850 GOOSE traffic modeling and generation. , 2017, , .		3
23	Simplified implementation and control of a flywheel energy system for microgrid applications. , 2017, , .		3
24	Robustness analysis of feedback linearization distributed control schemes in smart grid systems. , 2015, , .		2
25	Impact of Cyber Attacks on Data Integrity in Transient Stability Control. , 2017, , .		2
26	Fundamental limits on communication latency for distributed control via electromechanical waves. , 2017, , .		2
27	Frequency-stabilizing control scheme for islanded microgrids. , 2015, , .		1
28	Enhancing the performance of controlled distributed energy resources in noisy communication environments. , 2016, , .		1
29	Performance Metrics for Storage-Based Transient Stability Control. , 2017, , .		1
30	A transient stability control adaptive to measurements uncertainties. , 2017, , .		1
31	Toward a practical storage-based control scheme for transient stability applications. , 2017, , .		1