

Abdallah Farraj

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.

30
papers

360
citations

10
h-index

18
g-index

32
ext. papers

463
ext. citations

9.3
avg, IF

4.14
L-index

#	Paper	IF	Citations
30	Risk-Aware Cyber-Physical Control for Resilient Smart Cities 2022 , 95-122		
29	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
28	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
27	On Cyber-Physical Coupling and Distributed Control in Smart Grids. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 4418-4429	11.9	6
26	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
25	A Storage-Based Multiagent Regulation Framework for Smart Grid Resilience. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 3859-3869	11.9	11
24	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
23	A Class of Switching Exploits Based on Inter-Area Oscillations. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 4659-4668	10.7	5
22	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
21	Reactance perturbation for enhancing detection of FDI attacks in power system state estimation 2017 ,		5
20	Toward a practical storage-based control scheme for transient stability applications 2017 ,		1
19	Performance Metrics for Storage-Based Transient Stability Control 2017 ,		1
18	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
17	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
16	IEC-61850 GOOSE traffic modeling and generation 2017 ,		2
15	Simplified implementation and control of a flywheel energy system for microgrid applications 2017 ,		2
14	Fundamental limits on communication latency for distributed control via electromechanical waves 2017 ,		2

13	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
12	Mitigating link insecurities in smart grids via QoS multi-constraint routing 2016 ,		6
11	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
10	Enhancing the performance of controlled distributed energy resources in noisy communication environments 2016 ,		1
9	On the effects of distributed control area design for the stabilization of cyber-enabled smart grids 2015 ,		2
8	Paradigms and performance of distributed cyber-enabled control schemes for the smart grid 2015 ,		7
7	On using distributed control schemes to mitigate switching attacks in smart grids 2015 ,		4
6	Frequency-stabilizing control scheme for islanded microgrids 2015 ,		1
5	Cooperative microgrid networks for remote and rural areas 2015 ,		5
4	A systematic approach to delay-adaptive control design for smart grids 2015 ,		12
3	On using distributed energy resources to reshape the dynamics of power systems during transients 2015 ,		4
2	Tuning out of phase: Resonance attacks 2015 ,		6
1	Robustness analysis of feedback linearization distributed control schemes in smart grid systems 2015 ,		1