HjÃ¶rtur JÃ³hannsson

List of Publications by Year
in descending order

50 papers	389 citations	1163117 8 h-index	1058476 14 g-index
50 all docs	50 docs citations	50 times ranked	251 citing authors

#	Article	IF	Citations
1	SOSPO-SP: Secure Operation of Sustainable Power Systems Simulation Platform for Real-Time System State Evaluation and Control. IEEE Transactions on Industrial Informatics, 2014, 10, 2318-2329.	11.3	38
2	Impact of model detail of synchronous machines on real-time transient stability assessment. , 2013, , .		28
3	Wide-Area Assessment of Aperiodic Small Signal Rotor Angle Stability in Real-Time. IEEE Transactions on Power Systems, 2013, 28, 4545-4557.	6.5	26
4	Real-time thevenin impedance computation. , 2013, , .		22
5	Identification of critical transmission limits in injection impedance plane. International Journal of Electrical Power and Energy Systems, 2012, 43, 433-443.	5.5	21
6	Early Prevention Method for Power System Instability. IEEE Transactions on Power Systems, 2015, 30, 1784-1792.	6.5	17
7	Suitability of voltage stability study methods for real-time assessment. , 2013, , .		15
8	Real-time stability assessment based on synchrophasors. , 2011, , .		14
9	Investigation of the adaptability of transient stability assessment methods to real-time operation. , 2012, , .		14
10	Real-Time Remedial Action Against Aperiodic Small Signal Rotor Angle Instability. IEEE Transactions on Power Systems, 2016, 31, 387-396.	6.5	14
11	Fault tolerant emergency control to preserve power system stability. Control Engineering Practice, 2016, 53, 151-159.	5.5	14
12	An Improved On-line Contingency Screening for Power System Transient Stability Assessment. Electric Power Components and Systems, 2017, 45, 852-863.	1.8	11
13	Assessment of the impact that individual voltage source has on a generator's stability. , 2012, , .		10
14	Influence of current limitation on voltage stability with Voltage Sourced Converter HVDC. , 2013, , .		9
15	Super-Positioning of Voltage Sources for Fast Assessment of Wide-Area ThÃ©venin Equivalents. IEEE Transactions on Smart Grid, 2017, 8, 1488-1493.	9.0	9
16	Early prevention of instability - search for optimal grid nodes for applying countermeasures. , 2012, , .		8
17	Sensitivity based assessment of transient voltage sags caused by rotor swings. , 2014, , .		8
18	Technical resource potential of non-disruptive residential demand response in Denmark. , 2014, , .		8

#	Article	IF	Citations
19	Reduceâ€“factorâ€“solve for fast Thevenin impedance computation and network reduction. IET Generation, Transmission and Distribution, 2019, 13, 288-295.	2.5	8
20	Early prediction of transient voltage sags caused by rotor swings. , 2014, , .		7
21	A Memory-Efficient Parallelizable Method for Computation of ThÃ©venin Equivalents Used in Real-Time Stability Assessment. IEEE Transactions on Power Systems, 2019, 34, 2675-2684.	6.5	7
22	Wind farms generation limits and its impact in real-time voltage stability assessment. , 2015, , .		6
23	Investigation of suitability of cascading outage assessment methods for real-time assessment. , 2015, , .		6
24	System security assessment in real-time using synchrophasor measurements. , 2013, , .		5
25	Thevenin equivalent method for dynamic contingency assessment. , 2015, , .		5
26	Improved method for considering PMU's uncertainty and its effect on real-time stability assessment methods based on Thévenin equivalent. , 2015, , .		5
27	Improved Voltage Stability Boundary Monitoring by Accounting for Variations in Thevenin Voltage Magnitude. , 2018, , .		5
28	Fast assessment of the effect of preventive wide area emergency control. , 2013, , .		4
29	Uncertainty in real-time voltage stability assessment methods based on ThÃ©venin equivalent due to PMU's accuracy. , 2014, , .		4
30	Stabiliser Fault Emergency Control using Reconfiguration to Preserve Power System Stability. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 9093-9098.	0.4	4
31	Derivation and application of sensitivities to assess transient voltage sags caused by rotor swings. International Journal of Electrical Power and Energy Systems, 2015, 72, 75-82.	5.5	4
32	Improved ThÃ©venin equivalent methods for real-time voltage stability assessment. , 2016, , .		4
33	An implementation and test platform for wide area stability assessment methods. , 2013, , .		3
34	Early prevention of instability-use of self propagating graph for the fast search for optimal grid nodes to apply countermeasures. , 2013, , .		3
35	Computation of steady state nodal voltages for fast security assessment in power systems. , 2014, , .		3
36	Convex relaxation of power dispatch for voltage stability improvement. , 2015, , .		3

#	Article	IF	Citations
37	Evaluation of HVDC interconnection models for considering its impact in real-time voltage stability assessment. , 2015, , .		3
38	Voltage stability assessment accounting for nonâ€linearity of ThÃ©venin voltages. IET Generation, Transmission and Distribution, 2020, 14, 3338-3345.	2.5	3
39	Voltage stability assessment accounting for current-limited converters. Electric Power Systems Research, 2020, 189, 106772.	3.6	3
40	Critical machine cluster identification using the equal area criterion. , 2015, , .		2
41	On-line generation and arming of system protection schemes. , 2016, , .		2
42	Wide area prosumption control and sensitivities of aperiodic small signal stability indicators. , 2014, , .		1
43	Unweighted betweenness centrality for critical fault detection for cascading outage assessment. , 2016, , .		1
44	Evaluation of Factorization Methods for ThÃ©venin Equivalent Computations in Real-Time Stability Assessment. , 2018, , .		1
45	Binary Search and Fit Algorithm for Improved Voltage Stability Boundary Monitoring. , 2019, , .		1
46	Wide-area assessment of aperiodic small signal rotor angle stability in real-time. , 2014, , .		0
47	Real-time countermeasures preventing power system instability by using PMU data from RTDS simulation. , 2016, , .		0
48	Cascading Outage Assessment using ThÃ©venin Equivalent Static Contingency Assessment. , 2019, , .		0
49	Impact of Reduced Synchronous Machine Capacity on Damping and Phase of Inter-Area Oscillations. , 2020, , .		0
50	A Method to Determine the Distance to the Critical Oscillatory Stability Limit in Terms of Active Power Injections. , 2021, , .		0