

Newton Geraldo Bretas

List of Publications by Year in descending order

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46
papers

510
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840776

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all docs

47
docs citations

47
times ranked

479
citing authors

#	ARTICLE	IF	CITATIONS
1	A Geometrical View for Multiple Gross Errors Detection, Identification, and Correction in Power System State Estimation. IEEE Transactions on Power Systems, 2013, 28, 2128-2135.	6.5	58
2	Smart grids cyber-physical security as a malicious data attack: An innovation approach. Electric Power Systems Research, 2017, 149, 210-219.	3.6	58
3	Offline Detection, Identification, and Correction of Branch Parameter Errors Based on Several Measurement Snapshots. IEEE Transactions on Power Systems, 2011, 26, 870-877.	6.5	55
4	A two steps procedure in state estimation gross error detection, identification, and correction. International Journal of Electrical Power and Energy Systems, 2015, 73, 484-490.	5.5	52
5	Further contributions to smart grids cyber-physical security as a malicious data attack: Proof and properties of the parameter error spreading out to the measurements and a relaxed correction model. International Journal of Electrical Power and Energy Systems, 2019, 104, 43-51.	5.5	36
6	The Extension of the Gauss Approach for the Solution of an Overdetermined Set of Algebraic Non Linear Equations. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1269-1273.	3.0	26
7	Analysis of the small signal dynamic performance of synchronous generators under unbalanced operating conditions. , 2010, , .		22
8	An algorithm for computerized automatic tuning of power system stabilizers. Control Engineering Practice, 2010, 18, 45-54.	5.5	20
9	Cyber-physical robust control framework for enhancing transient stability of smart grids. IET Cyber-Physical Systems: Theory and Applications, 2017, 2, 198-206.	3.3	20
10	Distribution networks nontechnical power loss estimation: A hybrid data-driven physics model-based framework. Electric Power Systems Research, 2020, 186, 106397.	3.6	16
11	Non-technical losses identification using Optimum-Path Forest and state estimation. , 2015, , .		15
12	Multi-objective MILP model for PMU allocation considering enhanced gross error detection: A weighted goal programming framework. Electric Power Systems Research, 2020, 182, 106235.	3.6	15
13	Decentralized output feedback controller design for the damping of electromechanical oscillations. International Journal of Electrical Power and Energy Systems, 2004, 26, 207-219.	5.5	12
14	Power system state estimation: Undetectable bad data. International Transactions on Electrical Energy Systems, 2014, 24, 91-107.	1.9	12
15	A Mixed Procedure Based on Classical and Modern Control to Design Robust Damping Controllers. IEEE Transactions on Power Systems, 2007, 22, 1231-1239.	6.5	10
16	Energy restoration for large-scale distribution system using EA and a new data structure. , 2008, , .		9
17	Bad data analysis in distribution state estimation considering load models. , 2015, , .		9
18	A Multiobjective Evolutionary Algorithm with Node-Depth Encoding for Energy Restoration. , 2008, , .		7

#	ARTICLE	IF	CITATIONS
19	Smart distribution power losses estimation: A hybrid state estimation approach. , 2016, , .		7
20	Robust Design of a TCSC Supplementary Controller to Damp Inter-Area Oscillations. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	6
21	FunÃ§Ã£o energia generalizada de controle para estabilizaÃ§Ã£o de sistemas nÃ£o lineares. Controle and Automacao, 2009, 20, 133-145.	0.2	6
22	Robust control methodology for the design of supplementary damping controllers for FACTS devices. Controle and Automacao, 2009, 20, 192-205.	0.2	5
23	1/4PMU-Based Temporal Decoupling of Parameter and Measurement Cross Error Processing in DSSE. Electricity, 2021, 2, 423-438.	2.8	4
24	Hybrid Physics-Based Adaptive Kalman Filter State Estimation Framework. Energies, 2021, 14, 6787.	3.1	4
25	Generalized energy functions for a class of lossy networking preserving power system models. , 2015, , .		3
26	Contribution to distribution systems technical and nontechnical losses estimation using WLS state estimator. , 2017, , .		3
27	Distributed nonlinear state estimation using adaptive penalty parameters with load characteristics in the Electricity Reliability Council of Texas. Journal of Industrial Information Integration, 2021, 24, 100223.	6.4	3
28	Metodologia prÃ¡tica para estimaÃ§Ã£o de parÃ¢metros de geradores sÃncronos a partir de medidas de perturbaÃ§Ãµes. Controle and Automacao, 2012, 23, 453-464.	0.2	2
29	Association of the stability region with time scale analysis to study voltage stability. , 2013, , .		2
30	Gross error processing in state estimation: Comparing the residual and the error tests. , 2017, , .		2
31	Smart Grids False Data Injection Identification: a Deep Learning Approach. , 2019, , .		2
32	A New LMI-based procedure for the design of robust damping controllers for power systems. , 2004, , .		1
33	Power Systems Low Voltage Solutions Using an Auxiliar Gradient System for Voltage Collapse Purposes. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	1
34	Trajectory Sensitivity Method and Master-Slave Synchronization to Estimate Parameters of Nonlinear Systems. Mathematical Problems in Engineering, 2009, 2009, 1-14.	1.1	1
35	Transmission line parameter error detection, identification and correction with geometrical view: Topological errors. , 2015, , .		1
36	The innovation concept applied to the processing of measurements and parameters errors in power systems state estimation. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
37	Malicious data injection attacks: A relaxed physics model based strategy for real-time monitoring. , 2019, , .		1
38	Generalized Energy Functions for a Class of Third-Order Nonlinear Dynamical Systems. IEEE Transactions on Automatic Control, 2021, 66, 3111-3122.	5.7	1
39	Multi-Area State Estimation: A Distributed Quasi-Static Innovation-Based Model with an Alternative Direction Method of Multipliers. Applied Sciences (Switzerland), 2021, 11, 4419.	2.5	1
40	A tuning method of PSSs for distributed synchronous generators performing a trade-off between voltage performance and oscillation damping enhancement. , 2010, , .		0
41	Calculation of parameter ranges for robust gain tuning of power system controllers. Controle and Automacao, 2012, 23, 331-345.	0.2	0
42	Generalized Control Energy Function for controllable TCSC devices. , 2013, , .		0
43	A new approach for non-linear equations solution with the possibility of gross error presence. , 2013, , .		0
44	Smart Grids Cyber-Attack Defense: A Solution Based on an Incremental Learning Support Vector Machine. , 2019, , .		0
45	Controlador robusto multiobjetivo para o amortecimento de oscilações eletromecânicas em sistemas elétricos de potência. Controle and Automacao, 2005, 16, 290-302.	0.2	0
46	Largest Normalized Residual Test Analysis for Measurements Gross Errors Processing in the WLS Estimator. , 2012, , .		0