Newton Geraldo Bretas

List of Publications by Year
in descending order

46 papers	510 citations	840776 11 h-index	713466 21 g-index
47 all docs	47 docs citations	47 times ranked	479 citing authors

#	Article	IF	Citations
1	Generalized Energy Functions for a Class of Third-Order Nonlinear Dynamical Systems. IEEE Transactions on Automatic Control, 2021, 66, 3111-3122.	5.7	1
2	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
3	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
4	Î¼PMU-Based Temporal Decoupling of Parameter and Measurement Gross Error Processing in DSSE. Electricity, 2021, 2, 423-438.	2.8	4
5	Hybrid Physics-Based Adaptive Kalman Filter State Estimation Framework. Energies, 2021, 14, 6787.	3.1	4
6	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
7	Distribution networks nontechnical power loss estimation: A hybrid data-driven physics model-based framework. Electric Power Systems Research, 2020, 186, 106397.	3.6	16
8	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
9	Smart Grids Cyber-Attack Defense: A Solution Based on an Incremental Learning Support Vector Machine. , 2019, , .		0
10	Malicious data injection attacks: A relaxed physics model based strategy for real-time monitoring. , 2019, , .		1
11	Smart Grids False Data Injection Identification: a Deep Learning Approach. , 2019, , .		2
12	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
13	Smart grids cyber-physical security as a malicious data attack: An innovation approach. Electric Power Systems Research, 2017, 149, 210-219.	3.6	58
14	Cyberâ€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
15	Contribution to distribution systems technical and nontechnical losses estimation using WLS state estimator. , 2017, , .		3
16	Gross error processing in state estimation: Comparing the residual and the error tests. , 2017, , .		2
17	Smart distribution power losses estimation: A hybrid state estimation approach. , 2016, , .		7
18	Transmission line parameter error detection, identification and correction with geometrical view: Topological errors. , 2015, , .		1

#	Article	IF	Citations
19	Generalized energy functions for a class of lossy networking preserving power system models. , 2015, , .		3
20	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
21	The innovation concept applied to the processing of measurements and parameters errors in power systems state estimation. , 2015, , .		1
22	Bad data analysis in distribution state estimation considering load models. , 2015, , .		9
23	Non-technical losses identification using Optimum-Path Forest and state estimation. , 2015, , .		15
24	Power system state estimation: Undetectable bad data. International Transactions on Electrical Energy Systems, 2014, 24, 91-107.	1.9	12
25	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
26	Association of the stability region with time scale analysis to study voltage stability. , 2013, , .		2
27	Generalized Control Energy Function for controllable TCSC devices. , 2013, , .		0
28	A new approach for non-linear equations solution with the possibility of gross error presence. , 2013, , .		0
29	Calculation of parameter ranges for robust gain tuning of power system controllers. Controle and Automacao, 2012, 23, 331-345.	0.2	0
30	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
31	Largest Normalized Residual Test Analysis for Measurements Gross Errors Processing in the WLS Estimator. , 2012, , .		0
32	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
33	An algorithm for computerized automatic tuning of power system stabilizers. Control Engineering Practice, 2010, 18, 45-54.	5.5	20
34	A tuning method of PSSs for distributed synchronous generators performing a trade-off between voltage performance and oscillation damping enhancement. , 2010, , .		0
35	Analysis of the small signal dynamic performance of synchronous generators under unbalanced operating conditions. , 2010, , .		22
36	Trajectory Sensitivity Method and Master-Slave Synchronization to Estimate Parameters of Nonlinear Systems. Mathematical Problems in Engineering, 2009, 2009, 1-14.	1.1	1

#	Article	IF	Citations
37	Função energia generalizada de controle para estabilização de sistemas não lineares. Controle and Automacao, 2009, 20, 133-145.	0.2	6
38	Robust control methodology for the design of supplementary damping controllers for FACTS devices. Controle and Automacao, 2009, 20, 192-205.	0.2	5
39	Energy restoration for large-scale distribution system using EA and a new data structure. , 2008, , .		9
40	A Multiobjective Evolutionary Algorithm with Node-Depth Encoding for Energy Restoration. , 2008, , .		7
41	Power Systems Low Voltage Solutions Using an Auxiliar Gradient System for Voltage Collapse Purposes. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	1
42	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
43	Robust Design of a TCSC Supplementary Controller to Damp Inter-Area Oscillations. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	6
44	Controlador robusto multiobjetivo para o amortecimento de oscilações eletromecânicas em sistemas elétricos de potência. Controle and Automacao, 2005, 16, 290-302.	0.2	0
45	A New LMI-based procedure for the design of robust damping controllers for power systems. , 2004, , .		1
46	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