Guo-Qiang Zeng

List of Publications by Year
in descending order

44 papers	1,778 citations	331670 21 h-index	395702 33 g-index
44 all docs	44 docs citations	44 times ranked	1431 citing authors

#	Article	IF	Citations
1	Design of fractional order PID controller for automatic regulator voltage system based on multi-objective extremal optimization. Neurocomputing, 2015, 160, 173-184.	5.9	247
2	A Two-Layer Nonlinear Combination Method for Short-Term Wind Speed Prediction Based on ELM, ENN, and LSTM. IEEE Internet of Things Journal, 2019, 6, 6997-7010.	8.7	186
3	Adaptive population extremal optimization-based PID neural network for multivariable nonlinear control systems. Swarm and Evolutionary Computation, 2019, 44, 320-334.	8.1	171
4	EnLSTM-WPEO: Short-Term Traffic Flow Prediction by Ensemble LSTM, NNCT Weight Integration, and Population Extremal Optimization. IEEE Transactions on Vehicular Technology, 2020, 69, 101-113.	6.3	105
5	An improved multi-objective population-based extremal optimization algorithm with polynomial mutation. Information Sciences, 2016, 330, 49-73.	6.9	100
6	Constrained multi-objective population extremal optimization based economic-emission dispatch incorporating renewable energy resources. Renewable Energy, 2019, 143, 277-294.	8.9	85
7	Binary-coded extremal optimization for the design of PID controllers. Neurocomputing, 2014, 138, 180-188.	5.9	78
8	Design of a Fractional Order Frequency PID Controller for an Islanded Microgrid: A Multi-Objective Extremal Optimization Method. Energies, 2017, 10, 1502.	3.1	69
9	A novel real-coded population-based extremal optimization algorithm with polynomial mutation: A non-parametric statistical study on continuous optimization problems. Neurocomputing, 2016, 174, 577-587.	5.9	68
10	An adaptive fractional-order BP neural network based on extremal optimization for handwritten digits recognition. Neurocomputing, 2020, 391, 260-272.	5.9	58
11	An Adaptive Resilient Load Frequency Controller for Smart Grids With DoS Attacks. IEEE Transactions on Vehicular Technology, 2020, 69, 4689-4699.	6.3	58
12	Design of multivariable PID controllers using real-coded population-based extremal optimization. Neurocomputing, 2015, 151, 1343-1353.	5.9	55
13	Double Closed-Loop PI Control of Three-Phase Inverters by Binary-Coded Extremal Optimization. IEEE Access, 2016, 4, 7621-7632.	4.2	46
14	An Adaptive Model Predictive Load Frequency Control Method for Multi-Area Interconnected Power Systems with Photovoltaic Generations. Energies, 2017, 10, 1840.	3.1	45
15	Design of PID controller based on a self-adaptive state-space predictive functional control using extremal optimization method. Journal of the Franklin Institute, 2018, 355, 2197-2220.	3.4	43
16	Modified extremal optimization for the hard maximum satisfiability problem. Journal of Zhejiang University: Science C, 2011, 12, 589-596.	0.7	42
17	Fractional-Order Model Predictive Frequency Control of an Islanded Microgrid. Energies, 2019, 12, 84.	3.1	42
18	Evolutionary Deep Belief Network for Cyber-Attack Detection in Industrial Automation and Control System. IEEE Transactions on Industrial Informatics, 2021, 17, 7618-7627.	11.3	42

#	Article	IF	Citations
19	Population extremal optimization-based extended distributed model predictive load frequency control of multi-area interconnected power systems. Journal of the Franklin Institute, 2018, 355, 8266-8295.	3.4	40
20	BDFL: A Byzantine-Fault-Tolerance Decentralized Federated Learning Method for Autonomous Vehicle. IEEE Transactions on Vehicular Technology, 2021, 70, 8639-8652.	6.3	33
21	An improved bat algorithm hybridized with extremal optimization and Boltzmann selection. Expert Systems With Applications, 2021, 175, 114812.	7.6	24
22	A Variable-Frequency Current-Dependent Switching Strategy to Improve Tradeoff Between Efficiency and SiC MOSFET Overcurrent Stress in Si/SiC-Hybrid-Switch-Based Inverters. IEEE Transactions on Power Electronics, 2021, 36, 4877-4886.	7.9	20
23	Study on probability distributions for evolution in modified extremal optimization. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 1922-1930.	2.6	19
24	Fault-Tolerant Inverter Operation Based on Si/SiC Hybrid Switches. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 545-556.	5.4	18
25	Optimal P-Q Control of Grid-Connected Inverters in a Microgrid Based on Adaptive Population Extremal Optimization. Energies, 2018, 11, 2107.	3.1	15
26	Adaptive Gate Delay-Time Control of Si/SiC Hybrid Switch for Efficiency Improvement in Inverters. IEEE Transactions on Power Electronics, 2021, 36, 3437-3449.	7.9	15
27	Finite-time prescribed performance control of switched nonlinear systems with input quantisation. International Journal of Systems Science, 2021, 52, 857-873.	5.5	12
28	Adaptive constrained population extremal optimisationâ€based robust proportionalâ€integralâ€derivation frequency control method for an islanded microgrid. IET Cyber-Systems and Robotics, 2021, 3, 210-227.	1.8	10
29	An Improved Real-Coded Population-Based Extremal Optimization Method for Continuous Unconstrained Optimization Problems. Mathematical Problems in Engineering, 2014, 2014, 1-9.	1.1	5
30	VSG Control Strategy Incorporating Voltage Inertia and Virtual Impedance for Microgrids. Energies, 2020, 13, 4263.	3.1	5
31	Optimal Droop Control of Distributed Inverters in a Microgrid Under Autonomous Mode Based on Differenial Evolution. , 2018, , .		4
32	Fractional-order convolutional neural networks with population extremal optimization. Neurocomputing, 2022, 477, 36-45.	5.9	4
33	Comparison of binary coded genetic algorithms with different selection strategies for continuous optimization problems. , 2013, , .		3
34	Fractional-Order Predictive Functional Control of Industrial Processes with Partial Actuator Failures. Complexity, 2020, 2020, 1-26.	1.6	3
35	Optimization of a robust collaborative-relay beamforming design for simultaneous wireless information and power transfer. Frontiers of Information Technology and Electronic Engineering, 2018, 19, 1432-1443.	2.6	2
36	Optimal Location of Surge Arresters on an Overhead Distribution Network by Using Binary Particle Swarm Optimization. , 2018, , .		2

#	Article	IF	Citations
37	Thermal sturcutre design of air-cooled heat sinks for power electronic equipments by constrained population extremal optimization. , 2017, , .		1
38	Distributed fractional-order PID control of multi-area interconnected power systems by population based extremal optimization. , 2017, , .		1
39	Binary-coded extremal optimization based fractional-order frequency control of an islanded microgrid. , 2017, , .		1
40	An Electric Load Forecasting Model Based on BP Neural Network and Improved Bat Algorithm Hybridized with Extremal Optimization. , 2019, , .		1
41	Application of Petri net based deadlock prevention method to a real spectacles production system. , 2011, , .		0
42	A population extremal optimization based modified constrained generalized predictive control method. , 2017, , .		0
43	Optimal design of H<inf>2</inf>/H<inf>â^ž</inf> based robust PID controller by constrained extremal optimization and differential evolution. , 2017, , .		0
44	An Improved Firefly Algorithm Hybridized with Extremal optimization for Parameter Identification of Photovoltaic Models. , 2019, , .		0