

Chaoshun Li

List of Publications by Year in descending order

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123
papers

4,846
citations

81743

39
h-index

110170

64
g-index

124
all docs

124
docs citations

124
times ranked

3148
citing authors

#	ARTICLE	IF	CITATIONS
1	Parameters identification of hydraulic turbine governing system using improved gravitational search algorithm. <i>Energy Conversion and Management</i> , 2011, 52, 374-381.	4.4	241
2	A compound structure of ELM based on feature selection and parameter optimization using hybrid backtracking search algorithm for wind speed forecasting. <i>Energy Conversion and Management</i> , 2017, 143, 360-376.	4.4	222
3	Tâ€™S Fuzzy Model Identification With a Gravitational Search-Based Hyperplane Clustering Algorithm. <i>IEEE Transactions on Fuzzy Systems</i> , 2012, 20, 305-317.	6.5	149
4	Short-Term Wind Speed Interval Prediction Based on Ensemble GRU Model. <i>IEEE Transactions on Sustainable Energy</i> , 2020, 11, 1370-1380.	5.9	145
5	Multi-step short-term wind speed forecasting approach based on multi-scale dominant ingredient chaotic analysis, improved hybrid GWO-SCA optimization and ELM. <i>Energy Conversion and Management</i> , 2019, 187, 356-377.	4.4	141
6	Design of a fractional-order PID controller for a pumped storage unit using a gravitational search algorithm based on the Cauchy and Gaussian mutation. <i>Information Sciences</i> , 2017, 396, 162-181.	4.0	140
7	A hybrid model based on synchronous optimisation for multi-step short-term wind speed forecasting. <i>Applied Energy</i> , 2018, 215, 131-144.	5.1	125
8	Load Frequency Control of a Novel Renewable Energy Integrated Micro-Grid Containing Pumped Hydropower Energy Storage. <i>IEEE Access</i> , 2018, 6, 29067-29077.	2.6	118
9	An adaptively fast fuzzy fractional order PID control for pumped storage hydro unit using improved gravitational search algorithm. <i>Energy Conversion and Management</i> , 2016, 111, 67-78.	4.4	117
10	An adaptively fast ensemble empirical mode decomposition method and its applications to rolling element bearing fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , 2015, 62-63, 444-459.	4.4	112
11	A new Tâ€™S fuzzy-modeling approach to identify a boilerâ€™turbine system. <i>Expert Systems With Applications</i> , 2010, 37, 2214-2221.	4.4	106
12	Deep Learning Method Based on Gated Recurrent Unit and Variational Mode Decomposition for Short-Term Wind Power Interval Prediction. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 3814-3827.	7.2	104
13	Study on unit commitment problem considering pumped storage and renewable energy via a novel binary artificial sheep algorithm. <i>Applied Energy</i> , 2017, 187, 612-626.	5.1	99
14	Compound feature selection and parameter optimization of ELM for fault diagnosis of rolling element bearings. <i>ISA Transactions</i> , 2016, 65, 556-566.	3.1	97
15	Tâ€™S fuzzy model identification based on a novel fuzzy c-regression model clustering algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2009, 22, 646-653.	4.3	94
16	A novel chaotic particle swarm optimization based fuzzy clustering algorithm. <i>Neurocomputing</i> , 2012, 83, 98-109.	3.5	91
17	Temporal convolutional networks interval prediction model for wind speed forecasting. <i>Electric Power Systems Research</i> , 2021, 191, 106865.	2.1	85
18	Parameters identification of chaotic system by chaotic gravitational search algorithm. <i>Chaos, Solitons and Fractals</i> , 2012, 45, 539-547.	2.5	80

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19	An Improved Mixed Integer Linear Programming Approach Based on Symmetry Diminishing for Unit Commitment of Hybrid Power System. <i>Energies</i> , 2019, 12, 833.	1.6	74
20	Multi-objective complementary scheduling of hydro-thermal-RE power system via a multi-objective hybrid grey wolf optimizer. <i>Energy</i> , 2019, 171, 241-255.	4.5	74
21	Design of a fuzzy-PID controller for a nonlinear hydraulic turbine governing system by using a novel gravitational search algorithm based on Cauchy mutation and mass weighting. <i>Applied Soft Computing Journal</i> , 2017, 52, 290-305.	4.1	70
22	Adaptive condition predictive-fuzzy PID optimal control of start-up process for pumped storage unit at low head area. <i>Energy Conversion and Management</i> , 2018, 177, 592-604.	4.4	70
23	Hydraulic turbine governing system identification using Tâ€™S fuzzy model optimized by chaotic gravitational search algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2013, 26, 2073-2082.	4.3	66
24	EALSTM-QR: Interval wind-power prediction model based on numerical weather prediction and deep learning. <i>Energy</i> , 2021, 220, 119692.	4.5	66
25	A nonlinear generalized predictive control for pumped storage unit. <i>Renewable Energy</i> , 2017, 114, 945-959.	4.3	63
26	The short-term interval prediction of wind power using the deep learning model with gradient descend optimization. <i>Renewable Energy</i> , 2020, 155, 197-211.	4.3	63
27	Research on the Predictive Optimal PID Plus Second Order Derivative Method for AGC of Power System with High Penetration of Photovoltaic and Wind Power. <i>Journal of Electrical Engineering and Technology</i> , 2019, 14, 1075-1086.	1.2	62
28	A Tâ€™S Fuzzy Model Identification Approach Based on a Modified Inter Type-2 FRCM Algorithm. <i>IEEE Transactions on Fuzzy Systems</i> , 2018, 26, 1104-1113.	6.5	57
29	Multi-objective optimization of the closure law of guide vanes for pumped storage units. <i>Renewable Energy</i> , 2019, 139, 302-312.	4.3	56
30	A Novel Wind Speed Interval Prediction Based on Error Prediction Method. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 6806-6815.	7.2	55
31	Vibration trend measurement for a hydropower generator based on optimal variational mode decomposition and an LSSVM improved with chaotic sine cosine algorithm optimization. <i>Measurement Science and Technology</i> , 2019, 30, 015012.	1.4	53
32	Piecewise function based gravitational search algorithm and its application on parameter identification of AVR system. <i>Neurocomputing</i> , 2014, 124, 139-148.	3.5	49
33	A novel KICAâ€™PCA fault detection model for condition process of hydroelectric generating unit. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014, 58, 197-206.	2.5	48
34	Fault diagnosis based on Walsh transform and rough sets. <i>Mechanical Systems and Signal Processing</i> , 2009, 23, 1313-1326.	4.4	42
35	Semi-supervised weighted kernel clustering based on gravitational search for fault diagnosis. <i>ISA Transactions</i> , 2014, 53, 1534-1543.	3.1	42
36	A mixed-strategy based gravitational search algorithm for parameter identification of hydraulic turbine governing system. <i>Knowledge-Based Systems</i> , 2016, 109, 218-237.	4.0	42

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37	Tâ€™S Fuzzy Model Identification Based on a Novel Hyperplane-Shaped Membership Function. IEEE Transactions on Fuzzy Systems, 2017, 25, 1364-1370.	6.5	42
38	An Inter Type-2 FCR Algorithm Based Tâ€™S Fuzzy Model for Short-Term Wind Power Interval Prediction. IEEE Transactions on Industrial Informatics, 2019, 15, 4934-4943.	7.2	42
39	A novel fault diagnosis procedure based on improved symplectic geometry mode decomposition and optimized SVM. Measurement: Journal of the International Measurement Confederation, 2021, 173, 108644.	2.5	42
40	Parameter identification of a nonlinear model of hydraulic turbine governing system with an elastic water hammer based on a modified gravitational search algorithm. Engineering Applications of Artificial Intelligence, 2016, 50, 177-191.	4.3	41
41	Hybrid Bidirectional LSTM Model for Short-Term Wind Speed Interval Prediction. IEEE Access, 2020, 8, 182283-182294.	2.6	40
42	A chaos embedded GSA-SVM hybrid system for classification. Neural Computing and Applications, 2015, 26, 713-721.	3.2	39
43	Demodulation analysis based on adaptive local iterative filtering for bearing fault diagnosis. Measurement: Journal of the International Measurement Confederation, 2016, 94, 554-560.	2.5	38
44	Stability and dynamic characteristics of the nonlinear coupling system of hydropower station and power grid. Communications in Nonlinear Science and Numerical Simulation, 2019, 79, 104919.	1.7	38
45	A multi-objective optimization strategy for the optimal control scheme of pumped hydropower systems under successive load rejections. Applied Energy, 2020, 261, 114474.	5.1	35
46	A modified variational mode decomposition method based on envelope nesting and multi-criteria evaluation. Journal of Sound and Vibration, 2020, 468, 115099.	2.1	35
47	A simple approach for short-term wind speed interval prediction based on independently recurrent neural networks and error probability distribution. Energy, 2022, 238, 122012.	4.5	35
48	An Integrated Start-Up Method for Pumped Storage Units Based on a Novel Artificial Sheep Algorithm. Energies, 2018, 11, 151.	1.6	33
49	Parameters identification of nonlinear state space model of synchronous generator. Engineering Applications of Artificial Intelligence, 2011, 24, 1227-1237.	4.3	32
50	An evolving Tâ€™S fuzzy model identification approach based on a special membership function and its application on pump-turbine governing system. Engineering Applications of Artificial Intelligence, 2018, 69, 93-103.	4.3	32
51	Shaft mis-alignment induced vibration of a hydraulic turbine generating system considering parametric uncertainties. Journal of Sound and Vibration, 2018, 435, 74-90.	2.1	31
52	A multi-objective artificial sheep algorithm. Neural Computing and Applications, 2019, 31, 4049-4083.	3.2	31
53	Correlation Analysis and Augmentation of Samples for a Bidirectional Gate Recurrent Unit Network for the Remaining Useful Life Prediction of Bearings. IEEE Sensors Journal, 2021, 21, 7989-8001.	2.4	30
54	Dynamic response of a rub-impact rotor system under axial thrust. Archive of Applied Mechanics, 2009, 79, 1009-1018.	1.2	28

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55	A novel deep interval prediction model with adaptive interval construction strategy and automatic hyperparameter tuning for wind speed forecasting. <i>Energy</i> , 2021, 216, 119179.	4.5	28
56	Nonlinear modeling and multi-scale damping characteristics of hydro-turbine regulation systems under complex variable hydraulic and electrical network structures. <i>Applied Energy</i> , 2021, 293, 116949.	5.1	28
57	Design of a multi-mode intelligent model predictive control strategy for hydroelectric generating unit. <i>Neurocomputing</i> , 2016, 207, 287-299.	3.5	27
58	Optimal successive start-up strategy of two hydraulic coupling pumped storage units based on multi-objective control. <i>International Journal of Electrical Power and Energy Systems</i> , 2019, 111, 398-410.	3.3	26
59	Multi-class support vector machine optimized by inter-cluster distance and self-adaptive deferential evolution. <i>Applied Mathematics and Computation</i> , 2012, 218, 4973-4987.	1.4	25
60	A novel method for fault diagnosis of hydro generator based on NOFRFs. <i>International Journal of Electrical Power and Energy Systems</i> , 2015, 71, 60-67.	3.3	25
61	Comprehensive stochastic optimal scheduling in residential micro energy grid considering pumped-storage unit and demand response. <i>Journal of Energy Storage</i> , 2020, 32, 101968.	3.9	25
62	Dominant low-frequency oscillation modes tracking and parameter optimisation of electrical power system using modified Prony method. <i>IET Generation, Transmission and Distribution</i> , 2017, 11, 4358-4364.	1.4	24
63	An improved hybrid backtracking search algorithm based T&S fuzzy model and its implementation to hydroelectric generating units. <i>Neurocomputing</i> , 2018, 275, 2066-2079.	3.5	24
64	Damping characteristics analysis of hydropower units under full operating conditions and control parameters: Accurate quantitative evaluation based on refined models. <i>Applied Energy</i> , 2021, 292, 116881.	5.1	24
65	A Hybrid Fault Diagnosis Approach for Rotating Machinery with the Fusion of Entropy-Based Feature Extraction and SVM Optimized by a Chaos Quantum Sine Cosine Algorithm. <i>Entropy</i> , 2018, 20, 626.	1.1	23
66	Fault Diagnosis of Rolling Element Bearings with a Two-Step Scheme Based on Permutation Entropy and Random Forests. <i>Entropy</i> , 2019, 21, 96.	1.1	22
67	Advantage analysis of variable-speed pumped storage units in renewable energy power grid: Mechanism of avoiding S-shaped region. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 120, 105976.	3.3	22
68	A Hybrid Deep Interval Prediction Model for Wind Speed Forecasting. <i>IEEE Access</i> , 2021, 9, 7323-7335.	2.6	22
69	Envelope demodulation based on variational mode decomposition for gear fault diagnosis. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2017, 231, 864-870.	1.4	21
70	Multiobjective Optimization of a Fractional-Order PID Controller for Pumped Turbine Governing System Using an Improved NSGA-III Algorithm under Multiworking Conditions. <i>Complexity</i> , 2019, 2019, 1-18.	0.9	21
71	Controller Optimization Approach Using LSTM-Based Identification Model for Pumped-Storage Units. <i>IEEE Access</i> , 2019, 7, 32714-32727.	2.6	21
72	Electromagnetic Vibration Simulation of a 250-MW Large Hydropower Generator with Rotor Eccentricity and Rotor Deformation. <i>Energies</i> , 2017, 10, 2155.	1.6	20

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73	A Precise Chaotic Particle Swarm Optimization Algorithm based on Improved Tent Map. , 2008, , .		19
74	Multi-Objective Optimization of Start-up Strategy for Pumped Storage Units. <i>Energies</i> , 2018, 11, 1141.	1.6	18
75	A new lower and upper bound estimation model using gradient descend training method for wind speed interval prediction. <i>Wind Energy</i> , 2021, 24, 290-304.	1.9	18
76	Cost advantage of adjustable-speed pumped storage unit for daily operation in distributed hybrid system. <i>Renewable Energy</i> , 2021, 176, 1-10.	4.3	18
77	Fault diagnosis based on pulse coupled neural network and probability neural network. <i>Expert Systems With Applications</i> , 2011, 38, 14307-14307.	4.4	17
78	A Real-Time Accurate Model and Its Predictive Fuzzy PID Controller for Pumped Storage Unit via Error Compensation. <i>Energies</i> , 2018, 11, 35.	1.6	17
79	Multifault Diagnosis for Rolling Element Bearings Based on Intrinsic Mode Permutation Entropy and Ensemble Optimal Extreme Learning Machine. <i>Advances in Mechanical Engineering</i> , 2014, 6, 803919.	0.8	16
80	Observer-Based Adaptive Output Feedback Fault Tolerant Control for Nonlinear Hydro-Turbine Governing System with State Delay. <i>Asian Journal of Control</i> , 2020, 22, 192-203.	1.9	16
81	Identification of hydraulic turbine governor system parameters based on Bacterial Foraging Optimization Algorithm. , 2010, , .		15
82	Precise equivalent model of small hydro generator cluster and its parameter identification using improved Grey Wolf optimiser. <i>IET Generation, Transmission and Distribution</i> , 2016, 10, 2108-2117.	1.4	15
83	Deep balanced cascade forest: An novel fault diagnosis method for data imbalance. <i>ISA Transactions</i> , 2022, 126, 428-439.	3.1	15
84	Influence of water diversion system topologies and operation scenarios on the damping characteristics of hydropower units under ultra-low frequency oscillations. <i>Energy</i> , 2022, 239, 122679.	4.5	15
85	Remaining Useful Life Estimation Combining Two-Step Maximal Information Coefficient and Temporal Convolutional Network With Attention Mechanism. <i>IEEE Access</i> , 2021, 9, 16323-16336.	2.6	14
86	Operational characteristics and parameter sensitivity analysis of hydropower unit damping under ultra-low frequency oscillations. <i>International Journal of Electrical Power and Energy Systems</i> , 2022, 136, 107689.	3.3	14
87	Network-constrained unit commitment with RE uncertainty and PHES by using a binary artificial sheep algorithm. <i>Energy</i> , 2019, 189, 116203.	4.5	13
88	A Disassembly Sequence Planning Method With Team-Based Genetic Algorithm for Equipment Maintenance in Hydropower Station. <i>IEEE Access</i> , 2020, 8, 47538-47555.	2.6	13
89	Modeling and Synchronous Optimization of Pump Turbine Governing System Using Sparse Robust Least Squares Support Vector Machine and Hybrid Backtracking Search Algorithm. <i>Energies</i> , 2018, 11, 3108.	1.6	12
90	A Mixed-Strategy-Based Whale Optimization Algorithm for Parameter Identification of Hydraulic Turbine Governing Systems with a Delayed Water Hammer Effect. <i>Energies</i> , 2018, 11, 2367.	1.6	12

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91	An Adaptive Takagi-Sugeno Fuzzy Model-Based Generalized Predictive Controller for Pumped-Storage Unit. <i>IEEE Access</i> , 2019, 7, 103538-103555.	2.6	12
92	Health status assessment and prediction for pumped storage units using a novel health degradation index. <i>Mechanical Systems and Signal Processing</i> , 2022, 171, 108910.	4.4	12
93	Instantaneous Feature Extraction and Time-Frequency Representation of Rotor Purified Orbit Based on Vold-Kalman Filter. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 7386-7397.	2.4	11
94	Three-dimensional instantaneous orbit map for rotor-bearing system based on a novel multivariate complex variational mode decomposition algorithm. <i>Mechanical Systems and Signal Processing</i> , 2022, 178, 109211.	4.4	11
95	Multiobjective Optimal Control for Hydraulic Turbine Governing System Based on an Improved MOGWO Algorithm. <i>Complexity</i> , 2019, 2019, 1-14.	0.9	10
96	A S fuzzy model identification approach based on evolving MIT2-FCRM and WOS-ELM algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 92, 103653.	4.3	9
97	Application of adaptive local iterative filtering and approximate entropy to vibration signal denoising of hydropower unit. <i>Journal of Vibroengineering</i> , 2016, 18, 4299-4311.	0.5	9
98	Mechanic signal analysis based on the Haar-type orthogonal matrix. <i>Expert Systems With Applications</i> , 2009, 36, 9674-9677.	4.4	8
99	A parameter adaptive identification method for a pumped storage hydro unit regulation system model using an improved gravitational search algorithm. <i>Simulation</i> , 2017, 93, 679-694.	1.1	8
100	Short-Term Multi-Objective Optimal Operation of Reservoirs to Maximize the Benefits of Hydropower and Navigation. <i>Water (Switzerland)</i> , 2019, 11, 1272.	1.2	8
101	Robust T-S Fuzzy Model Identification Approach Based on FCRM Algorithm and L1-Norm Loss Function. <i>IEEE Access</i> , 2020, 8, 33792-33805.	2.6	8
102	Multi-fault classification based on the two-stage evolutionary extreme learning machine and improved artificial bee colony algorithm. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014, 228, 1797-1807.	1.1	7
103	A Novel Efficient DLUBE Model Constructed by Error Interval Coefficients for Clustered Wind Power Prediction. <i>IEEE Access</i> , 2021, 9, 61739-61751.	2.6	7
104	Degradation Trend Prediction of Pumped Storage Unit Based on MIC-LGBM and VMD-GRU Combined Model. <i>Energies</i> , 2022, 15, 605.	1.6	7
105	A Hybrid Model For Predicting The Degradation Trend Of Hydropower Units Based On Deep Learning. , 2019, , .		6
106	T-S Fuzzy Model Identification Based on Chaos Optimization. <i>Lecture Notes in Computer Science</i> , 2008, , 786-795.	1.0	5
107	Transient stability of a hydro-turbine governing system with different tailrace tunnels. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2020, 58, 60-69.	0.7	5
108	A novel two-stage interval prediction method based on minimal gated memory network for clustered wind power forecasting. <i>Wind Energy</i> , 2021, 24, 450-464.	1.9	5

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109	Nonlinear Model Predictive Control for Pumped Storage Plants Based on Online Sequential Extreme Learning Machine with Forgetting Factor. Complexity, 2021, 2021, 1-19.	0.9	5
110	Hopf Bifurcation and Parameter Sensitivity Analysis of a Doubly-Fed Variable-Speed Pumped Storage Unit. Energies, 2022, 15, 204.	1.6	4
111	Nonlinear Modeling and Stability of a Doubly-Fed Variable Speed Pumped Storage Power Station with Surge Tank Considering Nonlinear Pump Turbine Characteristics. Energies, 2022, 15, 4131.	1.6	4
112	A Hybrid Algorithm Based on Artificial Sheep Algorithm and Particle Swarm Optimization. , 2018, , .		3
113	Design of a Multi-Conditions Adaptive Fractional Order PID Controller for Pumped Turbine Governing System using Multiple Objectives Particle Swarm Optimization. , 2019, , .		3
114	Short-Term Wind Speed Interval Prediction using LUBE based Quasi-Recurrent Neural Network. Journal of Physics: Conference Series, 2022, 2189, 012015.	0.3	3
115	Improved algorithm about NSFOT. Applied Mathematics and Computation, 2009, 215, 881-888.	1.4	2
116	Research on fuzzy-PID excitation controller of synchronous generator based on improved PSO algorithm. , 2009, , .		2
117	Fuzzy Neural Network Based on Improved T-S Model and Its Application. Lecture Notes in Computer Science, 2009, , 155-164.	1.0	2
118	Vibration Fault Diagnosis for Hydraulic Generator Units with Pattern Recognition and Cluster Analysis. , 2008, , .		1
119	An Improved artificial sheep algorithm based on a novel hybrid strategy. , 2021, , .		1
120	A Fuzzy Cluster Algorithm Based on Mutative Scale Chaos Optimization. Lecture Notes in Computer Science, 2008, , 259-267.	1.0	1
121	Adaptive Hybrid Differential Evolution Algorithm and Its Application in Fuzzy Clustering. Lecture Notes in Computer Science, 2009, , 664-673.	1.0	0
122	Residual diagnosis model based on wavelet neural network and its application to hydroelectric generator unit. , 2015, , .		0
123	A Similarity-based Feature Extraction Method for Remaining Useful Life Prediction of Bearings. , 2020, , .		0