

Chaoshun Li

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7977822/publications.pdf>

Version: 2024-02-01

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	Deep balanced cascade forest: An novel fault diagnosis method for data imbalance. ISA Transactions, 2022, 126, 428-439.	3.1	15
2	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
3	Operational characteristics and parameter sensitivity analysis of hydropower unit damping under ultra-low frequency oscillations. International Journal of Electrical Power and Energy Systems, 2022, 136, 107689.	3.3	14
4	Influence of water diversion system topologies and operation scenarios on the damping characteristics of hydropower units under ultra-low frequency oscillations. Energy, 2022, 239, 122679.	4.5	15
5	Degradation Trend Prediction of Pumped Storage Unit Based on MIC-LGBM and VMD-GRU Combined Model. Energies, 2022, 15, 605.	1.6	7
6	Short-Term Wind Speed Interval Prediction using LUBE based Quasi-Recurrent Neural Network. Journal of Physics: Conference Series, 2022, 2189, 012015.	0.3	3
7	Health status assessment and prediction for pumped storage units using a novel health degradation index. Mechanical Systems and Signal Processing, 2022, 171, 108910.	4.4	12
8	Hopf Bifurcation and Parameter Sensitivity Analysis of a Doubly-Fed Variable-Speed Pumped Storage Unit. Energies, 2022, 15, 204.	1.6	4
9	Three-dimensional instantaneous orbit map for rotor-bearing system based on a novel multivariate complex variational mode decomposition algorithm. Mechanical Systems and Signal Processing, 2022, 178, 109211.	4.4	11
10	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
11	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
12	A novel deep interval prediction model with adaptive interval construction strategy and automatic hyperparameter tuning for wind speed forecasting. Energy, 2021, 216, 119179.	4.5	28
13	A new lower and upper bound estimation model using gradient descend training method for wind speed interval prediction. Wind Energy, 2021, 24, 290-304.	1.9	18
14	A novel two-stage interval prediction method based on minimal gated memory network for clustered wind power forecasting. Wind Energy, 2021, 24, 450-464.	1.9	5
15	Temporal convolutional networks interval prediction model for wind speed forecasting. Electric Power Systems Research, 2021, 191, 106865.	2.1	85
16	A Hybrid Deep Interval Prediction Model for Wind Speed Forecasting. IEEE Access, 2021, 9, 7323-7335.	2.6	22
17	A Novel Efficient DLUBE Model Constructed by Error Interval Coefficients for Clustered Wind Power Prediction. IEEE Access, 2021, 9, 61739-61751.	2.6	7
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	EALSTM-QR: Interval wind-power prediction model based on numerical weather prediction and deep learning. Energy, 2021, 220, 119692.	4.5	66
21	Damping characteristics analysis of hydropower units under full operating conditions and control parameters: Accurate quantitative evaluation based on refined models. Applied Energy, 2021, 292, 116881.	5.1	24
22	Nonlinear modeling and multi-scale damping characteristics of hydro-turbine regulation systems under complex variable hydraulic and electrical network structures. Applied Energy, 2021, 293, 116949.	5.1	28
23	Cost advantage of adjustable-speed pumped storage unit for daily operation in distributed hybrid system. Renewable Energy, 2021, 176, 1-10.	4.3	18
24	Remaining Useful Life Estimation Combining Two-Step Maximal Information Coefficient and Temporal Convolutional Network With Attention Mechanism. IEEE Access, 2021, 9, 16323-16336.	2.6	14
25	An Improved artificial sheep algorithm based on a novel hybrid strategy. , 2021, , .		1
26	Transient stability of a hydro-turbine governing system with different tailrace tunnels. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 60-69.	0.7	5
27	Observer-Based Adaptive Output Feedback Fault Tolerant Control for Nonlinear Hydro-Turbine Governing System with State Delay. Asian Journal of Control, 2020, 22, 192-203.	1.9	16
28	Short-Term Wind Speed Interval Prediction Based on Ensemble GRU Model. IEEE Transactions on Sustainable Energy, 2020, 11, 1370-1380.	5.9	145
29	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
30	Deep Learning Method Based on Gated Recurrent Unit and Variational Mode Decomposition for Short-Term Wind Power Interval Prediction. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3814-3827.	7.2	104
31	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
32	Hybrid Bidirectional LSTM Model for Short-Term Wind Speed Interval Prediction. IEEE Access, 2020, 8, 182283-182294.	2.6	40
33	Comprehensive stochastic optimal scheduling in residential micro energy grid considering pumped-storage unit and demand response. Journal of Energy Storage, 2020, 32, 101968.	3.9	25
34	Advantage analysis of variable-speed pumped storage units in renewable energy power grid: Mechanism of avoiding S-shaped region. International Journal of Electrical Power and Energy Systems, 2020, 120, 105976.	3.3	22
35	A Disassembly Sequence Planning Method With Team-Based Genetic Algorithm for Equipment Maintenance in Hydropower Station. IEEE Access, 2020, 8, 47538-47555.	2.6	13
36	The short-term interval prediction of wind power using the deep learning model with gradient descend optimization. Renewable Energy, 2020, 155, 197-211.	4.3	63

#	ARTICLE	IF	CITATIONS
37	A Tâ€‘S fuzzy model identification approach based on evolving MIT2-FCRM and WOS-ELM algorithm. Engineering Applications of Artificial Intelligence, 2020, 92, 103653.	4.3	9
38	Robust T-S Fuzzy Model Identification Approach Based on FCRM Algorithm and L1-Norm Loss Function. IEEE Access, 2020, 8, 33792-33805.	2.6	8
39	A Novel Wind Speed Interval Prediction Based on Error Prediction Method. IEEE Transactions on Industrial Informatics, 2020, 16, 6806-6815.	7.2	55
40	Instantaneous Feature Extraction and Timeâ€‘Frequency Representation of Rotor Purified Orbit Based on Voldâ€‘Kalman Filter. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7386-7397.	2.4	11
41	A Similarity-based Feature Extraction Method for Remaining Useful Life Prediction of Bearings. , 2020, , .		0
42	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
43	Short-Term Multi-Objective Optimal Operation of Reservoirs to Maximize the Benefits of Hydropower and Navigation. Water (Switzerland), 2019, 11, 1272.	1.2	8
44	An Adaptive Takagiâ€‘Sugeno Fuzzy Model-Based Generalized Predictive Controller for Pumped-Storage Unit. IEEE Access, 2019, 7, 103538-103555.	2.6	12
45	Network-constrained unit commitment with RE uncertainty and PHES by using a binary artificial sheep algorithm. Energy, 2019, 189, 116203.	4.5	13
46	Optimal successive start-up strategy of two hydraulic coupling pumped storage units based on multi-objective control. International Journal of Electrical Power and Energy Systems, 2019, 111, 398-410.	3.3	26
47	Multiobjective Optimal Control for Hydraulic Turbine Governing System Based on an Improved MOGWO Algorithm. Complexity, 2019, 2019, 1-14.	0.9	10
48	Multiobjective Optimization of a Fractional-Order PID Controller for Pumped Turbine Governing System Using an Improved NSGA-III Algorithm under Multiworking Conditions. Complexity, 2019, 2019, 1-18.	0.9	21
49	Multi-objective optimization of the closure law of guide vanes for pumped storage units. Renewable Energy, 2019, 139, 302-312.	4.3	56
50	An Improved Mixed Integer Linear Programming Approach Based on Symmetry Diminishing for Unit Commitment of Hybrid Power System. Energies, 2019, 12, 833.	1.6	74
51	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
52	Fault Diagnosis of Rolling Element Bearings with a Two-Step Scheme Based on Permutation Entropy and Random Forests. Entropy, 2019, 21, 96.	1.1	22
53	Research on the Predictive Optimal PID Plus Second Order Derivative Method for AGC of Power System with High Penetration of Photovoltaic and Wind Power. Journal of Electrical Engineering and Technology, 2019, 14, 1075-1086.	1.2	62
54	Multi-step short-term wind speed forecasting approach based on multi-scale dominant ingredient chaotic analysis, improved hybrid GWO-SCA optimization and ELM. Energy Conversion and Management, 2019, 187, 356-377.	4.4	141

#	ARTICLE	IF	CITATIONS
55	Controller Optimization Approach Using LSTM-Based Identification Model for Pumped-Storage Units. IEEE Access, 2019, 7, 32714-32727.	2.6	21
56	A Hybrid Model For Predicting The Degradation Trend Of Hydropower Units Based On Deep Learning. , 2019, , .		6
57	Design of a Multi-Conditions Adaptive Fractional Order PID Controller for Pumped Turbine Governing System using Multiple Objectives Particle Swarm Optimization. , 2019, , .		3
58	Vibration trend measurement for a hydropower generator based on optimal variational mode decomposition and an LSSVM improved with chaotic sine cosine algorithm optimization. Measurement Science and Technology, 2019, 30, 015012.	1.4	53
59	Multi-objective complementary scheduling of hydro-thermal-RE power system via a multi-objective hybrid grey wolf optimizer. Energy, 2019, 171, 241-255.	4.5	74
60	A multi-objective artificial sheep algorithm. Neural Computing and Applications, 2019, 31, 4049-4083.	3.2	31
61	A hybrid model based on synchronous optimisation for multi-step short-term wind speed forecasting. Applied Energy, 2018, 215, 131-144.	5.1	125
62	Load Frequency Control of a Novel Renewable Energy Integrated Micro-Grid Containing Pumped Hydropower Energy Storage. IEEE Access, 2018, 6, 29067-29077.	2.6	118
63	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
64	A Tâ€S Fuzzy Model Identification Approach Based on a Modified Inter Type-2 FRCM Algorithm. IEEE Transactions on Fuzzy Systems, 2018, 26, 1104-1113.	6.5	57
65	An improved hybrid backtracking search algorithm based Tâ€S fuzzy model and its implementation to hydroelectric generating units. Neurocomputing, 2018, 275, 2066-2079.	3.5	24
66	A Hybrid Algorithm Based on Artificial Sheep Algorithm and Particle Swarm Optimization. , 2018, , .		3
67	Modeling and Synchronous Optimization of Pump Turbine Governing System Using Sparse Robust Least Squares Support Vector Machine and Hybrid Backtracking Search Algorithm. Energies, 2018, 11, 3108.	1.6	12
68	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. Entropy, 2018, 20, 626.	1.1	23
69	A Mixed-Strategy-Based Whale Optimization Algorithm for Parameter Identification of Hydraulic Turbine Governing Systems with a Delayed Water Hammer Effect. Energies, 2018, 11, 2367.	1.6	12
70	Adaptive condition predictive-fuzzy PID optimal control of start-up process for pumped storage unit at low head area. Energy Conversion and Management, 2018, 177, 592-604.	4.4	70
71	A Real-Time Accurate Model and Its Predictive Fuzzy PID Controller for Pumped Storage Unit via Error Compensation. Energies, 2018, 11, 35.	1.6	17
72	An Integrated Start-Up Method for Pumped Storage Units Based on a Novel Artificial Sheep Algorithm. Energies, 2018, 11, 151.	1.6	33

#	ARTICLE	IF	CITATIONS
73	Multi-Objective Optimization of Start-up Strategy for Pumped Storage Units. <i>Energies</i> , 2018, 11, 1141.	1.6	18
74	Shaft mis-alignment induced vibration of a hydraulic turbine generating system considering parametric uncertainties. <i>Journal of Sound and Vibration</i> , 2018, 435, 74-90.	2.1	31
75	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
76	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
77	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
78	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
79	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
80	A nonlinear generalized predictive control for pumped storage unit. <i>Renewable Energy</i> , 2017, 114, 945-959.	4.3	63
81	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
82	Tâ€S Fuzzy Model Identification Based on a Novel Hyperplane-Shaped Membership Function. <i>IEEE Transactions on Fuzzy Systems</i> , 2017, 25, 1364-1370.	6.5	42
83	Dominant lowâ€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
84	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
85	Design of a multi-mode intelligent model predictive control strategy for hydroelectric generating unit. <i>Neurocomputing</i> , 2016, 207, 287-299.	3.5	27
86	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
87	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
88	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
89	Demodulation analysis based on adaptive local iterative filtering for bearing fault diagnosis. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 94, 554-560.	2.5	38
90	Parameter identification of a nonlinear model of hydraulic turbine governing system with an elastic water hammer based on a modified gravitational search algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2016, 50, 177-191.	4.3	41

#	ARTICLE	IF	CITATIONS
91	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
92	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
93	Residual diagnosis model based on wavelet neural network and its application to hydroelectric generator unit. , 2015, , .		0
94	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
95	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
96	A chaos embedded GSA-SVM hybrid system for classification. <i>Neural Computing and Applications</i> , 2015, 26, 713-721.	3.2	39
97	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
98	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
99	Semi-supervised weighted kernel clustering based on gravitational search for fault diagnosis. <i>ISA Transactions</i> , 2014, 53, 1534-1543.	3.1	42
100	A novel KICA-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
101	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
102	Hydraulic turbine governing system identification using T- ϵ -S fuzzy model optimized by chaotic gravitational search algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2013, 26, 2073-2082.	4.3	66
103	Parameters identification of chaotic system by chaotic gravitational search algorithm. <i>Chaos, Solitons and Fractals</i> , 2012, 45, 539-547.	2.5	80
104	Multi-class support vector machine optimized by inter-cluster distance and self-adaptive differential evolution. <i>Applied Mathematics and Computation</i> , 2012, 218, 4973-4987.	1.4	25
105	A novel chaotic particle swarm optimization based fuzzy clustering algorithm. <i>Neurocomputing</i> , 2012, 83, 98-109.	3.5	91
106	T- ϵ -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
107	Parameters identification of nonlinear state space model of synchronous generator. <i>Engineering Applications of Artificial Intelligence</i> , 2011, 24, 1227-1237.	4.3	32
108	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

#	ARTICLE	IF	CITATIONS
109	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
110	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
111	Identification of hydraulic turbine governor system parameters based on Bacterial Foraging Optimization Algorithm. , 2010, , .		15
112	Dynamic response of a rub-impact rotor system under axial thrust. <i>Archive of Applied Mechanics</i> , 2009, 79, 1009-1018.	1.2	28
113	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
114	Mechanic signal analysis based on the Haar-type orthogonal matrix. <i>Expert Systems With Applications</i> , 2009, 36, 9674-9677.	4.4	8
115	Fault diagnosis based on Walsh transform and rough sets. <i>Mechanical Systems and Signal Processing</i> , 2009, 23, 1313-1326.	4.4	42
116	Improved algorithm about NSFOT. <i>Applied Mathematics and Computation</i> , 2009, 215, 881-888.	1.4	2
117	Research on fuzzy-PID excitation controller of synchronous generator based on improved PSO algorithm. , 2009, , .		2
118	Adaptive Hybrid Differential Evolution Algorithm and Its Application in Fuzzy Clustering. <i>Lecture Notes in Computer Science</i> , 2009, , 664-673.	1.0	0
119	Fuzzy Neural Network Based on Improved T-S Model and Its Application. <i>Lecture Notes in Computer Science</i> , 2009, , 155-164.	1.0	2
120	T-S Fuzzy Model Identification Based on Chaos Optimization. <i>Lecture Notes in Computer Science</i> , 2008, , 786-795.	1.0	5
121	A Precise Chaotic Particle Swarm Optimization Algorithm based on Improved Tent Map. , 2008, , .		19
122	Vibration Fault Diagnosis for Hydraulic Generator Units with Pattern Recognition and Cluster Analysis. , 2008, , .		1
123	A Fuzzy Cluster Algorithm Based on Mutative Scale Chaos Optimization. <i>Lecture Notes in Computer Science</i> , 2008, , 259-267.	1.0	1