

# Jun Zhao

## List of Publications by Year in descending order

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106  
papers

1,502  
citations

304602

22  
h-index

345118

36  
g-index

107  
all docs

107  
docs citations

107  
times ranked

923  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Deep Learning Models for Time Series Prediction. IEEE Sensors Journal, 2021, 21, 7833-7848.	2.4	157
2	Real time prediction for converter gas tank levels based on multi-output least square support vector regressor. Control Engineering Practice, 2012, 20, 1400-1409.	3.2	86
3	A Two-Stage Online Prediction Method for a Blast Furnace Gas System and Its Application. IEEE Transactions on Control Systems Technology, 2011, 19, 507-520.	3.2	84
4	Prediction for noisy nonlinear time series by echo state network based on dual estimation. Neurocomputing, 2012, 82, 186-195.	3.5	76
5	An optimal method for prediction and adjustment on byproduct gas holder in steel industry. Expert Systems With Applications, 2011, 38, 4588-4599.	4.4	61
6	Prediction Intervals for a Noisy Nonlinear Time Series Based on a Bootstrapping Reservoir Computing Network Ensemble. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1036-1048.	7.2	53
7	Data-driven based model for flow prediction of steam system in steel industry. Information Sciences, 2012, 193, 104-114.	4.0	47
8	Granular Model of Long-Term Prediction for Energy System in Steel Industry. IEEE Transactions on Cybernetics, 2016, 46, 388-400.	6.2	47
9	Hybrid Neural Prediction and Optimized Adjustment for Coke Oven Gas System in Steel Industry. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 439-450.	7.2	45
10	Online Parameter Optimization-Based Prediction for Converter Gas System by Parallel Strategies. IEEE Transactions on Control Systems Technology, 2012, 20, 835-845.	3.2	41
11	Effective Noise Estimation-Based Online Prediction for Byproduct Gas System in Steel Industry. IEEE Transactions on Industrial Informatics, 2012, 8, 953-963.	7.2	38
12	Adaptive fuzzy clustering based anomaly data detection in energy system of steel industry. Information Sciences, 2014, 259, 335-345.	4.0	38
13	Use of a quantile regression based echo state network ensemble for construction of prediction Intervals of gas flow in a blast furnace. Control Engineering Practice, 2016, 46, 94-104.	3.2	36
14	A Bayesian Networks Structure Learning and Reasoning-Based Byproduct Gas Scheduling in Steel Industry. IEEE Transactions on Automation Science and Engineering, 2014, 11, 1149-1154.	3.4	33
15	Extended Kalman filter-based Elman networks for industrial time series prediction with GPU acceleration. Neurocomputing, 2013, 118, 215-224.	3.5	32
16	A two-stage method for predicting and scheduling energy in an oxygen/nitrogen system of the steel industry. Control Engineering Practice, 2016, 52, 35-45.	3.2	32
17	Variational Inference based Automatic Relevance Determination Kernel for Embedded Feature Selection of Noisy Industrial Data. IEEE Transactions on Industrial Electronics, 2018, , 1-1.	5.2	31
18	A review of system modeling, assessment and operational optimization for integrated energy systems. Science China Information Sciences, 2021, 64, 1.	2.7	27

#	ARTICLE	IF	CITATIONS
19	Improved Echo State Network Based on Data-driven and Its Application to vskip0.3 baselineskip Prediction of Blast Furnace Gas Output. Zidonghua Xuebao/Acta Automatica Sinica, 2009, 35, 731-738.	0.3	27
20	Granular-computing based hybrid collaborative fuzzy clustering for long-term prediction of multiple gas holders levels. Information Sciences, 2016, 330, 175-185.	4.0	24
21	Multiseries Featural LSTM for Partial Periodic Time-Series Prediction: A Case Study for Steel Industry. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5994-6003.	2.4	24
22	Adaptive Granulation-Based Prediction for Energy System of Steel Industry. IEEE Transactions on Cybernetics, 2018, 48, 127-138.	6.2	23
23	Granular Prediction and Dynamic Scheduling Based on Adaptive Dynamic Programming for the Blast Furnace Gas System. IEEE Transactions on Cybernetics, 2021, 51, 2201-2214.	6.2	23
24	Data-Based Predictive Optimization for Byproduct Gas System in Steel Industry. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1761-1770.	3.4	22
25	Two-stage robust optimisation of user-side cloud energy storage configuration considering load fluctuation and energy storage loss. IET Generation, Transmission and Distribution, 2020, 14, 3278-3287.	1.4	20
26	A MKL based on-line prediction for gasholder level in steel industry. Control Engineering Practice, 2012, 20, 629-641.	3.2	19
27	Construction of prediction intervals for gas flow systems in steel industry based on granular computing. Control Engineering Practice, 2018, 78, 79-88.	3.2	18
28	Prediction Intervals for Granular Data Streams Based on Evolving Type-2 Fuzzy Granular Neural Network Dynamic Ensemble. IEEE Transactions on Fuzzy Systems, 2021, 29, 874-888.	6.5	17
29	Non-iterative Tâ€S fuzzy modeling with random hidden-layer structure for BFG pipeline pressure prediction. Control Engineering Practice, 2018, 76, 96-103.	3.2	15
30	Hierarchical Granular Computing-Based Model and Its Reinforcement Structural Learning for Construction of Long-Term Prediction Intervals. IEEE Transactions on Cybernetics, 2022, 52, 666-676.	6.2	15
31	Map-reduce framework-based non-iterative granular echo state network for prediction intervals construction. Neurocomputing, 2017, 222, 116-126.	3.5	14
32	A Generalized Heterogeneous Type-2 Fuzzy Classifier and Its Industrial Application. IEEE Transactions on Fuzzy Systems, 2019, , 1-1.	6.5	13
33	Weighted directed graph based matrix modeling of integrated energy systems. Energy, 2021, 214, 118886.	4.5	13
34	Distributed Control Scheme for Accurate Power Sharing and Fixed Frequency Operation in Islanded Microgrids. IEEE Transactions on Industrial Electronics, 2021, 68, 12229-12238.	5.2	13
35	Spatiotemporal Prediction for Energy System of Steel Industry by Generalized Tensor Granularity Based Evolving Type-2 Fuzzy Neural Network. IEEE Transactions on Industrial Informatics, 2021, 17, 7933-7945.	7.2	13
36	Prediction intervals for industrial data with incomplete input using kernel-based dynamic Bayesian networks. Artificial Intelligence Review, 2016, 46, 307-326.	9.7	12

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37	A joint scheduling method for multiple byproduct gases in steel industry. Control Engineering Practice, 2018, 80, 174-184.	3.2	11
38	An adaptive piecewise linearized weighted directed graph for the modeling and operational optimization of integrated energy systems. Energy, 2022, 244, 122616.	4.5	10
39	Extended Kalman Filter Based Echo State Network for Time Series Prediction using MapReduce Framework. , 2013, , .		9
40	Data imputation for gas flow data in steel industry based on non-equal-length granules correlation coefficient. Information Sciences, 2016, 367-368, 311-323.	4.0	9
41	Incremental Bayesian broad learning system and its industrial application. Artificial Intelligence Review, 2021, 54, 3517-3537.	9.7	9
42	Long-term prediction enhancement based on multi-output Gaussian process regression integrated with production plans for oxygen supply network. Computers and Chemical Engineering, 2022, 163, 107844.	2.0	9
43	Relevance Vector Machines-Based Time Series Prediction for Incomplete Training Dataset: Two Comparative Approaches. IEEE Transactions on Cybernetics, 2021, 51, 4298-4311.	6.2	8
44	A Novel Semi-Supervised Sparse Bayesian Regression Based on Variational Inference for Industrial Datasets With Incomplete Outputs. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 4773-4786.	5.9	8
45	Granular-Causality-Based Byproduct Energy Scheduling for Energy-Intensive Enterprise. IEEE Transactions on Automation Science and Engineering, 2020, 17, 1662-1673.	3.4	8
46	Data-driven inference modeling based on an on-line Wang-Mendel fuzzy approach. Information Sciences, 2021, 551, 113-127.	4.0	7
47	Analysis and implementation of virtual impedance for fixed-frequency control strategy in microgrid. IET Generation, Transmission and Distribution, 2021, 15, 2262-2276.	1.4	7
48	Granular-Based Multilayer Spatiotemporal Network With Control Gates for Energy Prediction of Steel Industry. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	2.4	7
49	A Dynamic Scheduling Framework for Byproduct Gas System Combining Expert Knowledge and Production Plan. IEEE Transactions on Automation Science and Engineering, 2023, 20, 541-552.	3.4	7
50	Variational inference based kernel dynamic Bayesian networks for construction of prediction intervals for industrial time series with incomplete input. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 1437-1445.	8.5	6
51	A deep granular network with adaptive unequal-length granulation strategy for long-term time series forecasting and its industrial applications. Artificial Intelligence Review, 2020, 53, 5353-5381.	9.7	6
52	NONLINEAR CONTROL OF ROTATING MULTI-TETHERED FORMATIONS IN HALO ORBITS. International Journal of Computational Methods, 2014, 11, 1344008.	0.8	5
53	A multi-output fuzzy model for converter gas holder level prediction in steel industry. , 2015, , .		5
54	Multi-Layer Encoding Genetic Algorithm-Based Granular Fuzzy Inference for Blast Furnace Gas Scheduling**This work is supported by the National Natural Sciences Foundation of China (No.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Research Funds for the Central Universities (DUT15YQ113) and China Postdoctoral Science Foundation (2015M581335).. IFAC-PapersOnLine, 2016, 49, 132-137.	0.5	5

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55	A Modified Data-Driven Regression Model for Power Flow Analysis. , 2019, , .		5
56	A multiple surrogates based PSO algorithm. Artificial Intelligence Review, 2019, 52, 2169-2190.	9.7	5
57	A Granular Computing-Based Hybrid Hierarchical Method for Construction of Long-Term Prediction Intervals for Gaseous System of Steel Industry. IEEE Access, 2020, 8, 63538-63550.	2.6	5
58	A scheduling approach with uncertainties in generation and consumption for converter gas system in steel industry. Information Sciences, 2021, 546, 312-328.	4.0	5
59	A hybrid granular-evolutionary computing method for cooperative scheduling optimization on integrated energy system in steel industry. Swarm and Evolutionary Computation, 2022, 73, 101123.	4.5	5
60	A Causal Model-Based Scheduling Approach for Coke Oven Gas System in Steel Industry. IFAC-PapersOnLine, 2018, 51, 7-12.	0.5	4
61	Time Series Prediction With Incomplete Dataset Based on Deep Bidirectional Echo State Network. IEEE Access, 2019, 7, 152533-152544.	2.6	4
62	Coordinated Dispatch of Multi-Energy Microgrids and Distribution Network with a Flexible Structure. Applied Sciences (Switzerland), 2019, 9, 5553.	1.3	4
63	Embedded Feature Selection Based on Relevance Vector Machines With an Approximated Marginal Likelihood and its Industrial Application. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2601-2614.	5.9	4
64	Hybrid physical and data driven transient modeling for natural gas networks. Journal of Natural Gas Science and Engineering, 2021, 95, 104146.	2.1	4
65	Multi-operation Conditions Prediction Based on Least Square Support Vector Machine for Blast Furnace Gas System in Steel Industry. , 2020, , .		3
66	Associative reasoning-based interpretable continuous decision making in industrial production process. Expert Systems With Applications, 2022, 204, 117585.	4.4	3
67	An Online Prediction Model for BFG Output in Steel Industry. Advanced Materials Research, 0, 542-543, 507-512.	0.3	2
68	Granular Computing Concept based long-term prediction of Gas Tank Levels in Steel Industry. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6105-6110.	0.4	2
69	A multi-objective clustering-based membership functions formation method for fuzzy modeling of gas pipeline pressure. IFAC-PapersOnLine, 2017, 50, 12823-12828.	0.5	2
70	A Gaussian Approximation of Marginal Likelihood in Relevance Vector Machine for Industrial Data With Input Noise. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	2.4	2
71	Anomaly detection method based on multi-criteria evaluation for energy data of steel industry. , 2021, , .		2
72	Load Margin Assessment of Electricity-heat System Based on the Improved CPF. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
73	Distributed Adaptive Fuzzy Modeling for Industrial Gas-Electricity Networks With Multioperation Modes. IEEE Transactions on Industrial Informatics, 2023, 19, 6647-6658.	7.2	2
74	Study on scheduling model and algorithm for inventory control of cold rolling line. , 2011, , .		1
75	A dynamic causal diagram and constraint-based method for scheduling in blast furnace gas system of the steel industry. , 2017, , .		1
76	An improved WM fuzzy modeling method for blast furnace gas system. , 2017, , .		1
77	Joint distribution adaptation-based transfer learning for status classification of blast furnace gas pipeline network. , 2017, , .		1
78	Evolutionary adaptive dynamic programming algorithm for converter gas scheduling of steel industry. , 2017, , .		1
79	Industrial Prediction Intervals with Data Uncertainty. Information Fusion and Data Science, 2018, , 159-222.	0.3	1
80	Parameter Estimation and Optimization. Information Fusion and Data Science, 2018, , 269-350.	0.3	1
81	Deep Reinforcement Learning for Secondary Energy Scheduling in Steel Industry. , 2020, , .		1
82	Event-Triggered Adaptive Parameter Control for the Combined Cooling, Heating, and Power System. IEEE Transactions on Industrial Electronics, 2022, 69, 13881-13890.	5.2	1
83	Event-Triggered Online Scheduling for Industrial-Integrated Energy System. IEEE Transactions on Industrial Electronics, 2023, 70, 4027-4037.	5.2	1
84	Nonlinear station-keeping control of unstable orbits near collinear libration points. , 2010, , .		0
85	Nonlinear optimal control of the continuous low-thrust transfer between Halo orbits. , 2010, , .		0
86	Data-driven modeling by gaussian membership based sample selection and its application in steel energy system. , 2014, , .		0
87	A simplified nonlinear modeling for a two-stage grinding process circuit. , 2015, , .		0
88	Genetic algorithm for regionalization problem with adaptive equity constraint. , 2015, , .		0
89	Subset fusion based T-S fuzzy modeling for blast furnace gas system in steel industry. , 2015, , .		0
90	Data-based predictive optimization for by product gas system in steel industry. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
91	Improved dynamic time warping algorithm with adaptive scaling for steel plate thickness matching. , 2017, , .		0
92	Knowledge and mathematical programming-based optimal scheduling for byproduct gas system in steel industry. , 2017, , .		0
93	Bayesian optimization based on the data parallel approach. , 2017, , .		0
94	Long-term time series prediction based on deep denoising recurrent temporal restricted Boltzmann machine network. , 2017, , .		0
95	A multi-objective particle swarm algorithm based on the active learning approach. , 2017, , .		0
96	Fast generalized reduced gradient algorithm based data reconciliation model. , 2017, , .		0
97	Space direction neighborhood preserving embedding-based monitoring and scheduling guidance for blast furnace gas system. , 2017, , .		0
98	Fuzzy model based on dynamic weights of APs for indoor localization. , 2017, , .		0
99	Target-Oriented Granular Inference with Evolutionary Updating for Converter Gas Scheduling. , 2018, , .		0
100	Data Preprocessing Techniques. Information Fusion and Data Science, 2018, , 13-52.	0.3	0
101	A Word Similarity Feature-based Semi-supervised Approach for Named Entity Recognition. , 2019, , .		0
102	Two-Stage Configuration of User-Side Hybrid Energy Storage Based on Fuzzy Optimization. Applied Sciences (Switzerland), 2019, 9, 5307.	1.3	0
103	Data-Based Prediction for Energy Scheduling of Steel Industry. Information Fusion and Data Science, 2018, , 385-436.	0.3	0
104	Parallel Computing Considerations. Information Fusion and Data Science, 2018, , 351-383.	0.3	0
105	Input-delay-based LSTM-GRU dynamic modeling method for steam flow in steel industry. , 2021, , .		0
106	Adaptive Weighted Optimization Framework for Multiobjective Long-Term Planning of Concentrate Ingredients in Copper Industry. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-13.	2.4	0