

# Hong-gui Han

## List of Publications by Year in descending order

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107  
papers

3,194  
citations

136950

32  
h-index

168389

53  
g-index

107  
all docs

107  
docs citations

107  
times ranked

2102  
citing authors

#	ARTICLE	IF	CITATIONS
1	An efficient self-organizing RBF neural network for water quality prediction. <i>Neural Networks</i> , 2011, 24, 717-725.	5.9	194
2	A Self-Organizing Fuzzy Neural Network Based on a Growing-and-Pruning Algorithm. <i>IEEE Transactions on Fuzzy Systems</i> , 2010, 18, 1129-1143.	9.8	147
3	Nonlinear Model Predictive Control Based on a Self-Organizing Recurrent Neural Network. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016, 27, 402-415.	11.3	144
4	Model predictive control of dissolved oxygen concentration based on a self-organizing RBF neural network. <i>Control Engineering Practice</i> , 2012, 20, 465-476.	5.5	140
5	Nonlinear Model-Predictive Control for Industrial Processes: An Application to Wastewater Treatment Process. <i>IEEE Transactions on Industrial Electronics</i> , 2014, 61, 1970-1982.	7.9	132
6	Deterministic Learning-Based Adaptive Neural Control for Nonlinear Full-State Constrained Systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2023, 34, 5002-5011.	11.3	106
7	An Adaptive-PSO-Based Self-Organizing RBF Neural Network. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018, 29, 104-117.	11.3	99
8	Nonlinear Systems Modeling Based on Self-Organizing Fuzzy-Neural-Network With Adaptive Computation Algorithm. <i>IEEE Transactions on Cybernetics</i> , 2014, 44, 554-564.	9.5	82
9	Adaptive fuzzy neural network control of wastewater treatment process with multiobjective operation. <i>Neurocomputing</i> , 2018, 275, 383-393.	5.9	77
10	An Adaptive Multiobjective Particle Swarm Optimization Based on Multiple Adaptive Methods. <i>IEEE Transactions on Cybernetics</i> , 2017, 47, 2754-2767.	9.5	76
11	Data-Driven Multiobjective Predictive Control for Wastewater Treatment Process. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 2767-2775.	11.3	68
12	Real-Time Model Predictive Control Using a Self-Organizing Neural Network. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2013, 24, 1425-1436.	11.3	67
13	Adaptive Gradient Multiobjective Particle Swarm Optimization. <i>IEEE Transactions on Cybernetics</i> , 2018, 48, 3067-3079.	9.5	65
14	Adaptive Computation Algorithm for RBF Neural Network. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2012, 23, 342-347.	11.3	64
15	Nonlinear multiobjective model-predictive control scheme for wastewater treatment process. <i>Journal of Process Control</i> , 2014, 24, 47-59.	3.3	62
16	Prediction of activated sludge bulking based on a self-organizing RBF neural network. <i>Journal of Process Control</i> , 2012, 22, 1103-1112.	3.3	61
17	Adaptive dissolved oxygen control based on dynamic structure neural network. <i>Applied Soft Computing Journal</i> , 2011, 11, 3812-3820.	7.2	57
18	Self-Organizing RBF Neural Network Using an Adaptive Gradient Multiobjective Particle Swarm Optimization. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 69-82.	9.5	56

#	ARTICLE	IF	CITATIONS
19	Multiobjective design of fuzzy neural network controller for wastewater treatment process. Applied Soft Computing Journal, 2018, 67, 467-478.	7.2	54
20	Modeling of nonlinear systems using the self-organizing fuzzy neural network with adaptive gradient algorithm. Neurocomputing, 2017, 266, 566-578.	5.9	51
21	Data-driven intelligent monitoring system for key variables in wastewater treatment process. Chinese Journal of Chemical Engineering, 2018, 26, 2093-2101.	3.5	46
22	A soft computing method to predict sludge volume index based on a recurrent self-organizing neural network. Applied Soft Computing Journal, 2016, 38, 477-486.	7.2	45
23	An adaptive growing and pruning algorithm for designing recurrent neural network. Neurocomputing, 2017, 242, 51-62.	5.9	41
24	A self-organizing interval Type-2 fuzzy-neural-network for modeling nonlinear systems. Neurocomputing, 2018, 290, 196-207.	5.9	41
25	An adaptive second order fuzzy neural network for nonlinear system modeling. Neurocomputing, 2016, 214, 837-847.	5.9	39
26	A Self-Organizing Sliding-Mode Controller for Wastewater Treatment Processes. IEEE Transactions on Control Systems Technology, 2019, 27, 1480-1491.	5.2	39
27	A REPAIR ALGORITHM FOR RADIAL BASIS FUNCTION NEURAL NETWORK AND ITS APPLICATION TO CHEMICAL OXYGEN DEMAND MODELING. International Journal of Neural Systems, 2010, 20, 63-74.	5.2	38
28	Efficient self-organizing multilayer neural network for nonlinear system modeling. Neural Networks, 2013, 43, 22-32.	5.9	38
29	Cooperative Fuzzy-Neural Control for Wastewater Treatment Process. IEEE Transactions on Industrial Informatics, 2021, 17, 5971-5981.	11.3	38
30	Hierarchical Neural Network Modeling Approach to Predict Sludge Volume Index of Wastewater Treatment Process. IEEE Transactions on Control Systems Technology, 2013, 21, 2423-2431.	5.2	37
31	Hierarchical extreme learning machine for feedforward neural network. Neurocomputing, 2014, 128, 128-135.	5.9	34
32	Dynamic MOPSO-Based Optimal Control for Wastewater Treatment Process. IEEE Transactions on Cybernetics, 2021, 51, 2518-2528.	9.5	34
33	Optimal control for wastewater treatment process based on an adaptive multi-objective differential evolution algorithm. Neural Computing and Applications, 2019, 31, 2537-2550.	5.6	33
34	An Efficient Second-Order Algorithm for Self-Organizing Fuzzy Neural Networks. IEEE Transactions on Cybernetics, 2019, 49, 14-26.	9.5	32
35	Research on an online self-organizing radial basis function neural network. Neural Computing and Applications, 2010, 19, 667-676.	5.6	31
36	Data-Knowledge-Based Fuzzy Neural Network for Nonlinear System Identification. IEEE Transactions on Fuzzy Systems, 2020, 28, 2209-2221.	9.8	31

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37	Soft Computing of Biochemical Oxygen Demand Using an Improved Tâ€S Fuzzy Neural Network. Chinese Journal of Chemical Engineering, 2014, 22, 1254-1259.	3.5	28
38	A Direct Self-Constructing Neural Controller Design for a Class of Nonlinear Systems. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1312-1322.	11.3	28
39	Fault detection of sludge bulking using a self-organizing type-2 fuzzy-neural-network. Control Engineering Practice, 2019, 90, 27-37.	5.5	28
40	Intelligent Optimal Control System With Flexible Objective Functions and Its Applications in Wastewater Treatment Process. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 3464-3476.	9.3	28
41	Neural Network Onâ€Line Modeling and Controlling Method for Multiâ€Variable Control of Wastewater Treatment Processes. Asian Journal of Control, 2014, 16, 1213-1223.	3.0	27
42	Design of Self-Organizing Intelligent Controller Using Fuzzy Neural Network. IEEE Transactions on Fuzzy Systems, 2018, 26, 3097-3111.	9.8	26
43	Self-organization of a recurrent RBF neural network using an information-oriented algorithm. Neurocomputing, 2017, 225, 80-91.	5.9	24
44	Design of Robust Sliding Mode Control With Adaptive Reaching Law. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 4415-4424.	9.3	23
45	Data-Based Predictive Control for Wastewater Treatment Process. IEEE Access, 2018, 6, 1498-1512.	4.2	22
46	Cooperative strategy for constructing interval type-2 fuzzy neural network. Neurocomputing, 2019, 365, 249-260.	5.9	22
47	Accelerated gradient algorithm for RBF neural network. Neurocomputing, 2021, 441, 237-247.	5.9	22
48	A data-derived soft-sensor method for monitoring effluent total phosphorus. Chinese Journal of Chemical Engineering, 2017, 25, 1791-1797.	3.5	21
49	Nonlinear system modeling using a self-organizing recurrent radial basis function neural network. Applied Soft Computing Journal, 2018, 71, 1105-1116.	7.2	21
50	Prediction of sludge bulking using the knowledge-leverage-based fuzzy neural network. Water Science and Technology, 2018, 77, 617-627.	2.5	21
51	Adaptive optimal control for a wastewater treatment plant based on a data-driven method. Water Science and Technology, 2013, 67, 2314-2320.	2.5	20
52	Knowledge-Data-Driven Model Predictive Control for a Class of Nonlinear Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4492-4504.	9.3	20
53	Sparse Actuator and Sensor Attacks Reconstruction for Linear Cyber-Physical Systems With Sliding Mode Observer. IEEE Transactions on Industrial Informatics, 2022, 18, 3873-3884.	11.3	20
54	Self-Adjusting Multitask Particle Swarm Optimization. IEEE Transactions on Evolutionary Computation, 2022, 26, 145-158.	10.0	20

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55	An intelligent detecting system for permeability prediction of MBR. <i>Water Science and Technology</i> , 2018, 77, 467-478.	2.5	19
56	Data-driven decision-making for wastewater treatment process. <i>Control Engineering Practice</i> , 2020, 96, 104305.	5.5	19
57	Type-2 Fuzzy Broad Learning System. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 10352-10363.	9.5	19
58	An intelligent detection method for bulking sludge of wastewater treatment process. <i>Journal of Process Control</i> , 2018, 68, 118-128.	3.3	18
59	Observer-Based Adaptive Fuzzy Control for Nonlinear State-Constrained Systems Without Involving Feasibility Conditions. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 11724-11733.	9.5	18
60	Self-organizing radial basis function neural network using accelerated second-order learning algorithm. <i>Neurocomputing</i> , 2022, 469, 1-12.	5.9	18
61	An Efficient Optimization Method for Improving Generalization Performance of Fuzzy Neural Networks. <i>IEEE Transactions on Fuzzy Systems</i> , 2019, 27, 1347-1361.	9.8	16
62	Fuzzy Neural Network-Based Model Predictive Control for Dissolved Oxygen Concentration of WWTPs. <i>International Journal of Fuzzy Systems</i> , 2019, 21, 1497-1510.	4.0	15
63	Type-2 fuzzy broad learning controller for wastewater treatment process. <i>Neurocomputing</i> , 2021, 459, 188-200.	5.9	15
64	Cooperative Optimal Controller and Its Application to Activated Sludge Process. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 3938-3951.	9.5	14
65	Data-knowledge-driven diagnosis method for sludge bulking of wastewater treatment process. <i>Journal of Process Control</i> , 2021, 98, 106-115.	3.3	14
66	Dynamic multi-objective differential evolution algorithm based on the information of evolution progress. <i>Science China Technological Sciences</i> , 2021, 64, 1676-1689.	4.0	13
67	A sludge volume index (SVI) model based on the multivariate local quadratic polynomial regression method. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 1071-1077.	3.5	12
68	Hierarchical nonlinear model predictive control with multi-time-scale for wastewater treatment process. <i>Journal of Process Control</i> , 2021, 108, 125-135.	3.3	12
69	Data-Driven Intelligent Warning Method for Membrane Fouling. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021, 32, 3318-3329.	11.3	11
70	Robust optimal control for anaerobic-anoxic-oxic reactors. <i>Science China Technological Sciences</i> , 2021, 64, 1485-1499.	4.0	10
71	Event-triggered model predictive control of wastewater treatment plants. <i>Journal of Water Process Engineering</i> , 2022, 47, 102765.	5.6	10
72	Knowledge-Data-Driven Flexible Switching Control for Wastewater Treatment Process. <i>IEEE Transactions on Control Systems Technology</i> , 2022, 30, 1116-1129.	5.2	8

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73	Multi-objective model predictive control with gradient eigenvector algorithm. Information Sciences, 2022, 601, 114-128.	6.9	8
74	Univariate imputation method for recovering missing data in wastewater treatment process. Chinese Journal of Chemical Engineering, 2023, 53, 201-210.	3.5	8
75	Robust Optimal Control for Wastewater Treatment Process With Uncertain Time Delays. IEEE Transactions on Industrial Informatics, 2023, 19, 5785-5796.	11.3	8
76	A self-organizing deep belief network based on information relevance strategy. Neurocomputing, 2020, 396, 241-253.	5.9	7
77	Interactive Transfer Learning-Assisted Fuzzy Neural Network. IEEE Transactions on Fuzzy Systems, 2022, 30, 1900-1913.	9.8	7
78	Training Fuzzy Neural Network via Multiobjective Optimization for Nonlinear Systems Identification. IEEE Transactions on Fuzzy Systems, 2022, 30, 3574-3588.	9.8	7
79	Intelligent decision method of sludge bulking using recursive kernel principal component analysis and Bayesian network. Control Engineering Practice, 2022, 121, 105038.	5.5	7
80	Design of a self-organizing recurrent RBF neural network based on spiking mechanism. , 2016, , .		6
81	Robust Deep Neural Network Using Fuzzy Denoising Autoencoder. International Journal of Fuzzy Systems, 2020, 22, 1356-1375.	4.0	5
82	Adaptive candidate estimation-assisted multi-objective particle swarm optimization. Science China Technological Sciences, 2022, 65, 1685-1699.	4.0	5
83	Knowledge-Based Fuzzy Broad Learning Algorithm for Warning Membrane Fouling. International Journal of Fuzzy Systems, 2021, 23, 13-26.	4.0	4
84	Design of Syncretic Fuzzy-Neural Control for WWTP. IEEE Transactions on Fuzzy Systems, 2022, 30, 2837-2849.	9.8	4
85	Self-Organizing Interval Type-2 Fuzzy Neural Network Using Information Aggregation Method. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 6428-6442.	11.3	4
86	Takagi-Sugeno Fuzzy Realization of Stability Performance-Based Fault-Tolerant Control for Nonlinear Systems. IEEE Transactions on Fuzzy Systems, 2022, 30, 4249-4261.	9.8	4
87	Detection of sludge bulking using adaptive fuzzy neural network and mechanism model. Neurocomputing, 2022, 481, 193-201.	5.9	4
88	Adaptive NN Controller of Nonlinear State-Dependent Constrained Systems With Unknown Control Direction. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 913-922.	11.3	4
89	Multitask Particle Swarm Optimization With Dynamic On-Demand Allocation. IEEE Transactions on Evolutionary Computation, 2023, 27, 1015-1026.	10.0	4
90	Intelligent Warning of Membrane Fouling Based on Robust Deep Neural Network. International Journal of Fuzzy Systems, 2022, 24, 276-293.	4.0	3

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91	Transfer Learning Algorithm With Knowledge Division Level. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8602-8616.	11.3	3
92	A Spiking-based mechanism for self-organizing RBF neural networks. , 2014, , .		2
93	Fault Detection Approach for Nonlinear Systems via Nonlinear Factorization and Fuzzy Models. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3425-3429.	3.0	2
94	Multivariable identification of membrane fouling based on compacted cascade neural network. Chinese Journal of Chemical Engineering, 2023, 53, 37-45.	3.5	2
95	An ART-like algorithm for constructing RBF neural networks. , 2015, , .		1
96	Dynamic Multiobjective Optimal Control with Knowledge-Decision for Wastewater Treatment Process. , 2020, , .		1
97	A Knowledge Transfer-based Fuzzy Broad Learning System for Modeling Nonlinear Systems. , 2021, , .		1
98	Data-Knowledge-Driven Self-Organizing Fuzzy Neural Network. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 2081-2093.	11.3	1
99	Dynamic Optimal Control for Wastewater Treatment Process Under Multiple Operating Conditions. IEEE Transactions on Automation Science and Engineering, 2023, 20, 1907-1919.	5.2	1
100	An adaptive self-organizing fuzzy neural network. , 2007, , .		0
101	Research on MISO fuzzy neural network and its application. , 2008, , .		0
102	An input-output clustering approach for structure identification of T-S fuzzy neural networks. , 2014, , .		0
103	A GPRFNN-based control system for wastewater treatment process. , 2016, , .		0
104	A Self-Learning Sliding Mode Controller for Biological Wastewater Treatment System. , 2019, , .		0
105	Dynamic Output Feedback Control of a Sampled-Data System Under Stochastic Sampling. , 2020, , .		0
106	Design of Robust Fuzzy Neural Network with $\hat{L}_\pm$ -Divergence. , 2021, , .		0
107	Adaptive price adjustment method for used mobile phone based on dual deep fuzzy networks. Science China Technological Sciences, 0, , .	4.0	0