Jun-fei Qiao

List of Publications by Year
in descending order

149 papers	5,711 citations	61984 43 h-index	95266 68 g-index
149 all docs	149 docs citations	149 times ranked	3530 citing authors

#	Article	IF	Citations
1	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
2	Adaptive Neural Fixed-Time Tracking Control for High-Order Nonlinear Systems. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 708-717.	11.3	47
3	Resilient Output Synchronization of Heterogeneous Multiagent Systems With DoS Attacks Under Distributed Event-/Self-Triggered Control. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 1169-1178.	11.3	17
4	Adaptive Critic for Event-Triggered Unknown Nonlinear Optimal Tracking Design With Wastewater Treatment Applications. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 6276-6288.	11.3	24
5	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
6	Deterministic Learning-Based Adaptive Neural Control for Nonlinear Full-State Constrained Systems. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 5002-5011.	11.3	106
7	System Stability of Learning-Based Linear Optimal Control With General Discounted Value Iteration. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 6504-6514.	11.3	22
8	Stability and Admissibility Analysis for Zero-Sum Games Under General Value Iteration Formulation. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8707-8718.	11.3	8
9	An online adjusting RBF neural network for nonlinear system modeling. Applied Intelligence, 2023, 53, 440-453.	5.3	6
10	Robust Optimal Control for Wastewater Treatment Process With Uncertain Time Delays. IEEE Transactions on Industrial Informatics, 2023, 19, 5785-5796.	11.3	8
11	An Approximate Neuro-Optimal Solution of Discounted Guaranteed Cost Control Design. IEEE Transactions on Cybernetics, 2022, 52, 77-86.	9.5	78
12	How Deep Is Deep Enough for Deep Belief Network for Approximating Model Predictive Control Law. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2067-2078.	5.2	4
13	NOx Emissions Prediction With a Brain-Inspired Modular Neural Network in Municipal Solid Waste Incineration Processes. IEEE Transactions on Industrial Informatics, 2022, 18, 4622-4631.	11.3	19
14	Online and Self-Learning Approach to the Identification of Fuzzy Neural Networks. IEEE Transactions on Fuzzy Systems, 2022, 30, 649-662.	9.8	8
15	Artificial neural networks for water quality soft-sensing in wastewater treatment: a review. Artificial Intelligence Review, 2022, 55, 565-587.	15.7	64
16	Adaptive critic optimization to decentralized event‐triggered control of continuous‐time nonlinear interconnected systems. Optimal Control Applications and Methods, 2022, 43, 198-212.	2.1	13
17	An Efficient Self-Organizing Deep Fuzzy Neural Network for Nonlinear System Modeling. IEEE Transactions on Fuzzy Systems, 2022, 30, 2170-2182.	9.8	20
18	Observer-Based Adaptive Fuzzy Control for Nonlinear State-Constrained Systems Without Involving Feasibility Conditions. IEEE Transactions on Cybernetics, 2022, 52, 11724-11733.	9.5	18

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19	Policy Gradient Adaptive Critic Design With Dynamic Prioritized Experience Replay for Wastewater Treatment Process Control. IEEE Transactions on Industrial Informatics, 2022, 18, 3150-3158.	11.3	31
20	The optimal design and application of LSTM neural network based on the hybrid coding PSO algorithm. Journal of Supercomputing, 2022, 78, 7227-7259.	3.6	13
21	Emotional Neural Network Based on Improved CLPSO Algorithm For Time Series Prediction. Neural Processing Letters, 2022, 54, 1131-1154.	3.2	6
22	Secure Consensus of Multiagent Systems With Input Saturation and Distributed Multiple DoS Attacks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2246-2250.	3.0	8
23	Active Vision for Deep Visual Learning: A Unified Pooling Framework. IEEE Transactions on Industrial Informatics, 2022, 18, 6610-6618.	11.3	4
24	A pseudo-inverse decomposition-based self-organizing modular echo state network for time series prediction. Applied Soft Computing Journal, 2022, 116, 108317.	7.2	14
25	Dynamic Transfer Reference Point-Oriented MOEA/D Involving Local Objective-Space Knowledge. IEEE Transactions on Evolutionary Computation, 2022, 26, 542-554.	10.0	19
26	A multi-objective particle swarm optimization algorithm based on two-archive mechanism. Applied Soft Computing Journal, 2022, 119, 108532.	7.2	54
27	Robust echo state network with sparse online learning. Information Sciences, 2022, 594, 95-117.	6.9	12
28	Air Pollution Prediction in Mass Rallies With a New Temporally-Weighted Sample-Based Multitask Learner. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-15.	4.7	5
29	Effluent ammonia nitrogen prediction using a phase space reconstruction method combining pipelined recurrent wavelet neural network. Applied Soft Computing Journal, 2022, 120, 108602.	7.2	5
30	Multi-objective model predictive control with gradient eigenvector algorithm. Information Sciences, 2022, 601, 114-128.	6.9	8
31	Periodic decentralized event-triggered control for nonlinear systems with asynchronous update and dynamic quantization. Nonlinear Dynamics, 2022, 109, 877-890.	5.2	3
32	Adaptive candidate estimation-assisted multi-objective particle swarm optimization. Science China Technological Sciences, 2022, 65, 1685-1699.	4.0	5
33	Rendezvous of Heterogeneous Multiagent Systems With Nonuniform Time-Varying Information Delays: An Adaptive Approach. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4848-4857.	9.3	12
34	Deep Learning-Based Model Predictive Control for Continuous Stirred-Tank Reactor System. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3643-3652.	11.3	53
35	Nonlinear system modeling and application based on restricted Boltzmann machine and improved BP neural network. Applied Intelligence, 2021, 51, 37-50.	5.3	21
36	Ensemble Meta-Learning for Few-Shot Soot Density Recognition. IEEE Transactions on Industrial Informatics, 2021, 17, 2261-2270.	11.3	85

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37	Data-Driven Iterative Adaptive Critic Control Toward an Urban Wastewater Treatment Plant. IEEE Transactions on Industrial Electronics, 2021, 68, 7362-7369.	7.9	135
38	Fixed-Time Cooperative Relay Tracking in Multiagent Surveillance Networks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 487-496.	9.3	13
39	Design of sparse Bayesian echo state network for time series prediction. Neural Computing and Applications, 2021, 33, 7089-7102.	5.6	7
40	A novel decomposition-based multiobjective evolutionary algorithm using improved multiple adaptive dynamic selection strategies. Information Sciences, 2021, 556, 472-494.	6.9	22
41	A self-organizing recurrent fuzzy neural network based on multivariate time series analysis. Neural Computing and Applications, 2021, 33, 5089-5109.	5.6	13
42	PMâ„â€¦ Monitoring: Use Information Abundance Measurement and Wide and Deep Learning. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 4278-4290.	11.3	72
43	An adaptive task-oriented RBF network for key water quality parameters prediction in wastewater treatment process. Neural Computing and Applications, 2021, 33, 11401-11414.	5.6	24
44	Soft-sensing of Wastewater Treatment Process via Deep Belief Network with Event-triggered Learning. Neurocomputing, 2021, 436, 103-113.	5.9	26
45	Intelligent optimal tracking with asymmetric constraints of a nonlinear wastewater treatment system. International Journal of Robust and Nonlinear Control, 2021, 31, 6773-6787.	3.7	32
46	Discounted nearâ€optimal regulation of constrained nonlinear systems via generalized value iteration. International Journal of Robust and Nonlinear Control, 2021, 31, 8481-8503.	3.7	9
47	A metric-based meta-learning approach combined attention mechanism and ensemble learning for few-shot learning. Displays, 2021, 70, 102065.	3.7	11
48	Cooperative Fuzzy-Neural Control for Wastewater Treatment Process. IEEE Transactions on Industrial Informatics, 2021, 17, 5971-5981.	11.3	38
49	Adaptive Fuzzy Fast Finite-Time Dynamic Surface Tracking Control for Nonlinear Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 4337-4348.	5.4	80
50	Boundary Observer Design for Stochastic Phase Transition Models of Nonequilibrium Traffic Flow. IEEE Transactions on Automatic Control, 2021, 66, 4828-4835.	5.7	4
51	Prediction of Oxygen Content Using Weighted PCA and Improved LSTM Network in MSWI Process. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	13
52	Model-Free Off-Policy Iterative Adaptive Dynamic Programming for Nitrate-Nitrogen Concentration Control. , 2021, , .		0
53	Flare Soot Monitoring Based on Thermal Infrared Image Processing and Attention-based Meta-learning. , 2021, , .		1
54	Air Volume Setting Model of Municipal Solid Waste Incineration Process Based on Color Moment Features of Combustion Flame. , 2021, , .		1

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55	Remote Sensing Inversion for River Turbidity Estimation Based on Noise Injection and Ensemble Learning. , 2021, , .		1
56	Sparse LSTM neural network with hybrid PSO algorithm. , 2021, , .		0
57	Multi‐Variable Direct Self‐Organizing Fuzzy Neural Network Control for Wastewater Treatment Process. Asian Journal of Control, 2020, 22, 716-728.	3.0	15
58	Multiscale Natural Scene Statistical Analysis for No-Reference Quality Evaluation of DIBR-Synthesized Views. IEEE Transactions on Broadcasting, 2020, 66, 127-139.	3.2	52
59	A self-organizing deep belief network based on information relevance strategy. Neurocomputing, 2020, 396, 241-253.	5.9	7
60	Learning a Unified Blind Image Quality Metric via On-Line and Off-Line Big Training Instances. IEEE Transactions on Big Data, 2020, 6, 780-791.	6.1	20
61	Stacked Selective Ensemble for $PM_{2.5}$ Forecast. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 660-671.	4.7	73
62	Identification and simplification of T-S fuzzy neural networks based on incremental structure learning and similarity analysis. Fuzzy Sets and Systems, 2020, 394, 65-86.	2.7	13
63	A sparse deep belief network with efficient fuzzy learning framework. Neural Networks, 2020, 121, 430-440.	5.9	48
64	Self-Learning Optimal Regulation for Discrete-Time Nonlinear Systems Under Event-Driven Formulation. IEEE Transactions on Automatic Control, 2020, 65, 1272-1279.	5.7	148
65	Data-Knowledge-Based Fuzzy Neural Network for Nonlinear System Identification. IEEE Transactions on Fuzzy Systems, 2020, 28, 2209-2221.	9.8	31
66	An adaptive hybrid evolutionary immune multi-objective algorithm based on uniform distribution selection. Information Sciences, 2020, 512, 446-470.	6.9	30
67	Deep Dual-Channel Neural Network for Image-Based Smoke Detection. IEEE Transactions on Multimedia, 2020, 22, 311-323.	7.2	143
68	Data-Driven Multiobjective Predictive Control for Wastewater Treatment Process. IEEE Transactions on Industrial Informatics, 2020, 16, 2767-2775.	11.3	68
69	An Adaptive Deep Belief Network With Sparse Restricted Boltzmann Machines. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4217-4228.	11.3	46
70	An online self-organizing modular neural network for nonlinear system modeling. Applied Soft Computing Journal, 2020, 97, 106777.	7.2	22
71	A pruning feedforward small-world neural network based on Katz centrality for nonlinear system modeling. Neural Networks, 2020, 130, 269-285.	5.9	15
72	Photo-Based Monitoring of Particulate Matter in the Campus: A New Strategy for Student Health. IOP Conference Series: Earth and Environmental Science, 2020, 555, 012053.	0.3	0

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73	An online self-organizing algorithm for feedforward neural network. Neural Computing and Applications, 2020, 32, 17505-17518.	5.6	10
74	Design of modeling error PDF based fuzzy neural network for effluent ammonia nitrogen prediction. Applied Soft Computing Journal, 2020, 91, 106239.	7.2	9
75	Random Forest Ensemble for River Turbidity Measurement From Space Remote Sensing Data. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9028-9036.	4.7	28
76	A self-organizing RBF neural network based on distance concentration immune algorithm. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 276-291.	13.1	22
77	Vision-Based Monitoring of Flare Soot. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7136-7145.	4.7	37
78	Prediction of MSWI furnace temperature based on TS fuzzy neural network. , 2020, , .		4
79	A New Anomaly Detector of Flare Pilot Based on Siamese Network. , 2020, , .		4
80	A Self-Organizing Sliding-Mode Controller for Wastewater Treatment Processes. IEEE Transactions on Control Systems Technology, 2019, 27, 1480-1491.	5.2	39
81	Decoupling control for wastewater treatment process based on recurrent fuzzy neural network. Asian Journal of Control, 2019, 21, 1270-1280.	3.0	12
82	Highly Efficient Picture-Based Prediction of PM2.5 Concentration. IEEE Transactions on Industrial Electronics, 2019, 66, 3176-3184.	7.9	98
83	Dynamical regularized echo state network for time series prediction. Neural Computing and Applications, 2019, 31, 6781-6794.	5.6	29
84	Stability Analysis for a Class of Discrete-Time Switched Systems With Partial Unstable Subsystems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 2017-2021.	3.0	23
85	Online sequential echo state network with sparse RLS algorithm for time series prediction. Neural Networks, 2019, 118, 32-42.	5.9	32
86	Multiobjective optimal control for wastewater treatment process using adaptive MOEA/D. Applied Intelligence, 2019, 49, 1098-1126.	5.3	35
87	PI boundary control of linear hyperbolic balance laws with stabilization of ARZ traffic flow models. Systems and Control Letters, 2019, 123, 85-91.	2.3	43
88	A decomposition-based multiobjective evolutionary algorithm with angle-based adaptive penalty. Applied Soft Computing Journal, 2019, 74, 190-205.	7.2	34
89	TL-GDBN: Growing Deep Belief Network With Transfer Learning. IEEE Transactions on Automation Science and Engineering, 2019, 16, 874-885.	5.2	100
90	Self-Organizing RBF Neural Network Using an Adaptive Gradient Multiobjective Particle Swarm Optimization. IEEE Transactions on Cybernetics, 2019, 49, 69-82.	9.5	56

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91	Adaptive lasso echo state network based on modified Bayesian information criterion for nonlinear system modeling. Neural Computing and Applications, 2019, 31, 6163-6177.	5.6	27
92	An Efficient Second-Order Algorithm for Self-Organizing Fuzzy Neural Networks. IEEE Transactions on Cybernetics, 2019, 49, 14-26.	9.5	32
93	Design of polynomial echo state networks for time series prediction. Neurocomputing, 2018, 290, 148-160.	5.9	42
94	An adaptive deep Q-learning strategy for handwritten digit recognition. Neural Networks, 2018, 107, 61-71.	5.9	65
95	Multiobjective design of fuzzy neural network controller for wastewater treatment process. Applied Soft Computing Journal, 2018, 67, 467-478.	7.2	54
96	A self-organizing interval Type-2 fuzzy-neural-network for modeling nonlinear systems. Neurocomputing, 2018, 290, 196-207.	5.9	41
97	A self-organizing deep belief network for nonlinear system modeling. Applied Soft Computing Journal, 2018, 65, 170-183.	7.2	49
98	Adaptive Gradient Multiobjective Particle Swarm Optimization. IEEE Transactions on Cybernetics, 2018, 48, 3067-3079.	9.5	65
99	Recurrent Air Quality Predictor Based on Meteorology- and Pollution-Related Factors. IEEE Transactions on Industrial Informatics, 2018, 14, 3946-3955.	11.3	110
100	An incremental neuronal-activity-based RBF neural network for nonlinear system modeling. Neurocomputing, 2018, 302, 1-11.	5.9	41
101	Adaptive Levenberg-Marquardt Algorithm Based Echo State Network for Chaotic Time Series Prediction. IEEE Access, 2018, 6, 10720-10732.	4.2	33
102	Dynamic multi-objective optimization control for wastewater treatment process. Neural Computing and Applications, 2018, 29, 1261-1271.	5.6	66
103	An Adaptive-PSO-Based Self-Organizing RBF Neural Network. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 104-117.	11.3	99
104	Learning a No-Reference Quality Assessment Model of Enhanced Images With Big Data. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 1301-1313.	11.3	321
105	Nonlinear System Modeling Using RBF Networks for Industrial Application. IEEE Transactions on Industrial Informatics, 2018, 14, 931-940.	11.3	71
106	A deep belief network with PLSR for nonlinear system modeling. Neural Networks, 2018, 104, 68-79.	5.9	59
107	An intelligent detecting system for permeability prediction of MBR. Water Science and Technology, 2018, 77, 467-478.	2.5	19
108	Prediction of sludge bulking using the knowledge-leverage-based fuzzy neural network. Water Science and Technology, 2018, 77, 617-627.	2.5	21

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109	Modeling of energy consumption and effluent quality using density peaks-based adaptive fuzzy neural network. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 968-976.	13.1	33
110	Growing Echo-State Network With Multiple Subreservoirs. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 391-404.	11.3	138
111	An adaptive growing and pruning algorithm for designing recurrent neural network. Neurocomputing, 2017, 242, 51-62.	5.9	41
112	An Adaptive Multiobjective Particle Swarm Optimization Based on Multiple Adaptive Methods. IEEE Transactions on Cybernetics, 2017, 47, 2754-2767.	9.5	76
113	Wastewater treatment control method based on a rule adaptive recurrent fuzzy neural network. International Journal of Intelligent Computing and Cybernetics, 2017, 10, 94-110.	2.7	6
114	Modeling of nonlinear systems using the self-organizing fuzzy neural network with adaptive gradient algorithm. Neurocomputing, 2017, 266, 566-578.	5.9	51
115	An improved algorithm for building self-organizing feedforward neural networks. Neurocomputing, 2017, 262, 28-40.	5.9	23
116	Self-organization of a recurrent RBF neural network using an information-oriented algorithm. Neurocomputing, 2017, 225, 80-91.	5.9	24
117	No-Reference Quality Assessment of Screen Content Pictures. IEEE Transactions on Image Processing, 2017, 26, 4005-4018.	9.8	210
118	Soft Measurement Modeling Based on Chaos Theory for Biochemical Oxygen Demand (BOD). Water (Switzerland), 2016, 8, 581.	2.7	12
119	Self-organizing fuzzy control for dissolved oxygen concentration using fuzzy neural network1. Journal of Intelligent and Fuzzy Systems, 2016, 30, 3411-3422.	1.4	20
120	Identification of fuzzy neural networks by forward recursive input-output clustering and accurate similarity analysis. Applied Soft Computing Journal, 2016, 49, 524-543.	7.2	18
121	Mutual information based weight initialization method for sigmoidal feedforward neural networks. Neurocomputing, 2016, 207, 676-683.	5.9	32
122	Constructive algorithm for fully connected cascade feedforward neural networks. Neurocomputing, 2016, 182, 154-164.	5.9	44
123	A self-organizing cascade neural network with random weights for nonlinear system modeling. Applied Soft Computing Journal, 2016, 42, 184-193.	7.2	59
124	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
125	An ART-like algorithm for constructing RBF neural networks. , 2015, , .		1
126	Dissolved oxygen control system based on the T-S fuzzy neural network. , 2015, , .		6

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127	Direct adaptive neural network control for wastewater treatment process. , 2014, , .		5
128	Soft Computing of Biochemical Oxygen Demand Using an Improved T–S Fuzzy Neural Network. Chinese Journal of Chemical Engineering, 2014, 22, 1254-1259.	3.5	28
129	Nonlinear Model-Predictive Control for Industrial Processes: An Application to Wastewater Treatment Process. IEEE Transactions on Industrial Electronics, 2014, 61, 1970-1982.	7.9	132
130	Nonlinear Systems Modeling Based on Self-Organizing Fuzzy-Neural-Network With Adaptive Computation Algorithm. IEEE Transactions on Cybernetics, 2014, 44, 554-564.	9.5	82
131	An online self-adaptive modular neural network for time-varying systems. Neurocomputing, 2014, 125, 7-16.	5.9	41
132	A structure optimisation algorithm for feedforward neural network construction. Neurocomputing, 2013, 99, 347-357.	5.9	61
133	Real-Time Model Predictive Control Using a Self-Organizing Neural Network. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1425-1436.	11.3	67
134	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
135	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
136	Identification and modeling of nonlinear dynamical systems using a novel self-organizing RBF-based approach. Automatica, 2012, 48, 1729-1734.	5.0	82
137	An efficient self-organizing RBF neural network for water quality prediction. Neural Networks, 2011, 24, 717-725.	5.9	194
138	A Modular Neural Networks ensembling method based on fuzzy decision-making. , 2011, , .		4
139	Research on an online self-organizing radial basis function neural network. Neural Computing and Applications, 2010, 19, 667-676.	5.6	31
140	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
141	A Self-Organizing Fuzzy Neural Network Based on a Growing-and-Pruning Algorithm. IEEE Transactions on Fuzzy Systems, 2010, 18, 1129-1143.	9.8	147
142	Balance control of robot with CMAC based Q-learning. , 2008, , .		2
143	Research on MISO fuzzy neural network and its application. , 2008, , .		0
144	Research on de-noising of pulse signal based on fuzzy threshold in wavelet packet domain. , 2007, , .		2

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145	An adaptive self-organizing fuzzy neural network. , 2007, , .		0
146	A Modified Difference Hopfield Neural Network and Its Application. , 2006, , .		3
147	INFINITE-HORIZON OPTIMAL CONTROL BASED ON CONTINUOUS-TIME CONTINUOUS-STATE HOPFIELD NEURAL NETWORKS. International Journal of Wavelets, Multiresolution and Information Processing, 2006, 04, 707-719.	1.3	2
148	A Modified Difference Hopfield Neural Network and its application. , 0, , .		0
149	A novel self-organizing TS fuzzy neural network for furnace temperature prediction in MSWI process. Neural Computing and Applications, 0, , 1.	5.6	3