C P Chen

List of Publications by Year in descending order

771 papers	37,697 citations	2423 97 h-index	5227 165 g-index
775 all docs	775 docs citations	775 times ranked	18930 citing authors

#	Article	IF	Citations
1	Data-intensive applications, challenges, techniques and technologies: A survey on Big Data. Information Sciences, 2014, 275, 314-347.	4.0	2,076
2	Broad Learning System: An Effective and Efficient Incremental Learning System Without the Need for Deep Architecture. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 10-24.	7.2	1,117
3	A Local Contrast Method for Small Infrared Target Detection. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 574-581.	2.7	726
4	A new 1D chaotic system for image encryption. Signal Processing, 2014, 97, 172-182.	2.1	706
5	2D Sine Logistic modulation map for image encryption. Information Sciences, 2015, 297, 80-94.	4.0	595
6	Adaptive Consensus Control for a Class of Nonlinear Multiagent Time-Delay Systems Using Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1217-1226.	7.2	531
7	Adaptive control-based Barrier Lyapunov Functions for a class of stochastic nonlinear systems with full state constraints. Automatica, 2018, 87, 83-93.	3.0	508
8	Observer-Based Adaptive Backstepping Consensus Tracking Control for High-Order Nonlinear Semi-Strict-Feedback Multiagent Systems. IEEE Transactions on Cybernetics, 2016, 46, 1591-1601.	6.2	504
9	Fuzzy Neural Network-Based Adaptive Control for a Class of Uncertain Nonlinear Stochastic Systems. IEEE Transactions on Cybernetics, 2014, 44, 583-593.	6.2	467
10	Cyber Security and Privacy Issues in Smart Grids. IEEE Communications Surveys and Tutorials, 2012, 14, 981-997.	24.8	444
11	A survey of communication/networking in Smart Grids. Future Generation Computer Systems, 2012, 28, 391-404.	4.9	430
12	Neural Network Control-Based Adaptive Learning Design for Nonlinear Systems With Full-State Constraints. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1562-1571.	7.2	424
13	Adaptive Neural Output Feedback Tracking Control for a Class of Uncertain Discrete-Time Nonlinear Systems. IEEE Transactions on Neural Networks, 2011, 22, 1162-1167.	4.8	333
14	Integral Barrier Lyapunov function-based adaptive control for switched nonlinear systems. Science China Information Sciences, 2020, 63, 1.	2.7	330
15	Universal Approximation Capability of Broad Learning System and Its Structural Variations. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1191-1204.	7.2	328
16	Adaptive Fuzzy Control via Observer Design for Uncertain Nonlinear Systems With Unmodeled Dynamics. IEEE Transactions on Fuzzy Systems, 2013, 21, 275-288.	6.5	299
17	Cascade Chaotic System With Applications. IEEE Transactions on Cybernetics, 2015, 45, 2001-2012.	6.2	297
18	Neural Network-Based Adaptive Leader-Following Consensus Control for a Class of Nonlinear Multiagent State-Delay Systems. IEEE Transactions on Cybernetics, 2017, 47, 2151-2160.	6.2	290

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19	Fuzzy Adaptive Quantized Control for a Class of Stochastic Nonlinear Uncertain Systems. IEEE Transactions on Cybernetics, 2016, 46, 524-534.	6.2	267
20	Fuzzy Adaptive Finite-Time Control Design for Nontriangular Stochastic Nonlinear Systems. IEEE Transactions on Fuzzy Systems, 2019, 27, 172-184.	6.5	259
21	Finite-Time Formation Control of Under-Actuated Ships Using Nonlinear Sliding Mode Control. IEEE Transactions on Cybernetics, 2018, 48, 3243-3253.	6.2	251
22	Neural Networks-Based Adaptive Control for Nonlinear State Constrained Systems With Input Delay. IEEE Transactions on Cybernetics, 2019, 49, 1249-1258.	6.2	250
23	Adaptive Neural Output Feedback Controller Design With Reduced-Order Observer for a Class of Uncertain Nonlinear SISO Systems. IEEE Transactions on Neural Networks, 2011, 22, 1328-1334.	4.8	248
24	Fuzzy Broad Learning System: A Novel Neuro-Fuzzy Model for Regression and Classification. IEEE Transactions on Cybernetics, 2020, 50, 414-424.	6.2	245
25	Fuzzy Observed-Based Adaptive Consensus Tracking Control for Second-Order Multiagent Systems With Heterogeneous Nonlinear Dynamics. IEEE Transactions on Fuzzy Systems, 2016, 24, 906-915.	6.5	244
26	A survey of human-centered intelligent robots: issues and challenges. IEEE/CAA Journal of Automatica Sinica, 2017, 4, 602-609.	8.5	236
27	Image encryption using a new parametric switching chaotic system. Signal Processing, 2013, 93, 3039-3052.	2.1	235
28	Output-Feedback Adaptive Neural Control for Stochastic Nonlinear Time-Varying Delay Systems With Unknown Control Directions. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1188-1201.	7.2	213
29	Neural†network†based adaptive leader†following consensus control for second†order non†linear multi†agent systems. IET Control Theory and Applications, 2015, 9, 1927-1934.	1.2	213
30	Adaptive Fuzzy Output Feedback Control for a Class of Nonlinear Systems With Full State Constraints. IEEE Transactions on Fuzzy Systems, 2018, 26, 2607-2617.	6.5	213
31	Reinforcement Learning Design-Based Adaptive Tracking Control With Less Learning Parameters for Nonlinear Discrete-Time MIMO Systems. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 165-176.	7.2	212
32	A Multiple-Kernel Fuzzy C-Means Algorithm for Image Segmentation. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 1263-1274.	5.5	211
33	Adaptive Neural Network Control for Active Suspension Systems With Time-Varying Vertical Displacement and Speed Constraints. IEEE Transactions on Industrial Electronics, 2019, 66, 9458-9466.	5.2	202
34	Dimension Reduction Using Spatial and Spectral Regularized Local Discriminant Embedding for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1082-1095.	2.7	200
35	Model Approximation for Fuzzy Switched Systems With Stochastic Perturbation. IEEE Transactions on Fuzzy Systems, 2015, 23, 1458-1473.	6.5	199
36	A rapid learning and dynamic stepwise updating algorithm for flat neural networks and the application to time-series prediction. IEEE Transactions on Systems, Man, and Cybernetics, 1999, 29, 62-72.	5.5	193

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37	Finite-Time Filter Decentralized Control for Nonstrict-Feedback Nonlinear Large-Scale Systems. IEEE Transactions on Fuzzy Systems, 2018, 26, 3289-3300.	6.5	192
38	Underwater Internet of Things in Smart Ocean: System Architecture and Open Issues. IEEE Transactions on Industrial Informatics, 2020, 16, 4297-4307.	7.2	192
39	I-Ching Divination Evolutionary Algorithm and its Convergence Analysis. IEEE Transactions on Cybernetics, 2017, 47, 2-13.	6.2	189
40	Fuzzy Restricted Boltzmann Machine for the Enhancement of Deep Learning. IEEE Transactions on Fuzzy Systems, 2015, 23, 2163-2173.	6.5	187
41	Neural Controller Design-Based Adaptive Control for Nonlinear MIMO Systems With Unknown Hysteresis Inputs. IEEE Transactions on Cybernetics, 2016, 46, 9-19.	6.2	187
42	Predictive Deep Boltzmann Machine for Multiperiod Wind Speed Forecasting. IEEE Transactions on Sustainable Energy, 2015, 6, 1416-1425.	5.9	186
43	Time-varying IBLFs-based adaptive control of uncertain nonlinear systems with full state constraints. Automatica, 2021, 129, 109595.	3.0	178
44	Adaptive least squares support vector machines filter for hand tremor canceling in microsurgery. International Journal of Machine Learning and Cybernetics, 2011, 2, 37-47.	2.3	175
45	GCB-Net: Graph Convolutional Broad Network and Its Application in Emotion Recognition. IEEE Transactions on Affective Computing, 2022, 13, 379-388.	5.7	175
46	Adaptive Consensus of Nonlinear Multi-Agent Systems With Non-Identical Partially Unknown Control Directions and Bounded Modelling Errors. IEEE Transactions on Automatic Control, 2017, 62, 4654-4659.	3.6	169
47	Adaptive Robust Output Feedback Control for a Marine Dynamic Positioning System Based on a High-Gain Observer. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2775-2786.	7.2	166
48	Authentication and Access Control in the Internet of Things. , 2012, , .		163
49	Adaptive Neural Control of Uncertain MIMO Nonlinear Systems With State and Input Constraints. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1318-1330.	7.2	163
50	Design of Highly Nonlinear Substitution Boxes Based on I-Ching Operators. IEEE Transactions on Cybernetics, 2018, 48, 3349-3358.	6.2	162
51	Adaptive NN Control Using Integral Barrier Lyapunov Functionals for Uncertain Nonlinear Block-Triangular Constraint Systems. IEEE Transactions on Cybernetics, 2017, 47, 3747-3757.	6.2	161
52	Neural Network Controller Design for a Class of Nonlinear Delayed Systems With Time-Varying Full-State Constraints. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2625-2636.	7.2	161
53	Recurrent Broad Learning Systems for Time Series Prediction. IEEE Transactions on Cybernetics, 2020, 50, 1405-1417.	6.2	161
54	Adaptive NN Controller Design for a Class of Nonlinear MIMO Discrete-Time Systems. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1007-1018.	7.2	159

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55	Extreme Learning Machine With Composite Kernels for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2351-2360.	2.3	158
56	Adaptive Fuzzy Control for a Class of Stochastic Pure-Feedback Nonlinear Systems With Unknown Hysteresis. IEEE Transactions on Fuzzy Systems, 2016, 24, 140-152.	6.5	157
57	Adaptive Neural Control for a Class of Nonlinear Time-Varying Delay Systems With Unknown Hysteresis. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 2129-2140.	7.2	156
58	Image encryption using binary bitplane. Signal Processing, 2014, 100, 197-207.	2.1	156
59	Multimodal Estimation of Distribution Algorithms. IEEE Transactions on Cybernetics, 2017, 47, 636-650.	6.2	153
60	Multiobjective Vehicle Routing Problems With Simultaneous Delivery and Pickup and Time Windows: Formulation, Instances, and Algorithms. IEEE Transactions on Cybernetics, 2016, 46, 582-594.	6.2	149
61	Neural Network Filtering Control Design for Nontriangular Structure Switched Nonlinear Systems in Finite Time. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2153-2162.	7.2	149
62	SeqViews2SeqLabels: Learning 3D Global Features via Aggregating Sequential Views by RNN With Attention. IEEE Transactions on Image Processing, 2019, 28, 658-672.	6.0	148
63	Event-Triggered Adaptive Control of Saturated Nonlinear Systems With Time-Varying Partial State Constraints. IEEE Transactions on Cybernetics, 2020, 50, 1485-1497.	6.2	148
64	A rapid supervised learning neural network for function interpolation and approximation. IEEE Transactions on Neural Networks, 1996, 7, 1220-1230.	4.8	147
65	Intelligent Prognostics for Battery Health Monitoring Using the Mean Entropy and Relevance Vector Machine. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 851-862.	5.9	143
66	On Some Separated Algorithms for Separable Nonlinear Least Squares Problems. IEEE Transactions on Cybernetics, 2018, 48, 2866-2874.	6.2	142
67	Bounded Neural Network Control for Target Tracking of Underactuated Autonomous Surface Vehicles in the Presence of Uncertain Target Dynamics. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1241-1249.	7.2	142
68	Formation Control of Leader–Follower Mobile Robots' Systems Using Model Predictive Control Based on Neural-Dynamic Optimization. IEEE Transactions on Industrial Electronics, 2016, 63, 5752-5762.	5.2	138
69	Formation Control With Obstacle Avoidance for a Class of Stochastic Multiagent Systems. IEEE Transactions on Industrial Electronics, 2018, 65, 5847-5855.	5.2	138
70	Adaptive Tracking Control of Surface Vessel Using Optimized Backstepping Technique. IEEE Transactions on Cybernetics, 2019, 49, 3420-3431.	6.2	138
71	Medical image encryption using edge maps. Signal Processing, 2017, 132, 96-109.	2.1	137
72	Adaptive Fuzzy Tracking Control of Nonlinear Time-Delay Systems With Dead-Zone Output Mechanism Based on a Novel Smooth Model. IEEE Transactions on Fuzzy Systems, 2015, 23, 1998-2011.	6.5	134

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73	Adaptive Neural Output Feedback Control of Output-Constrained Nonlinear Systems With Unknown Output Nonlinearity. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1789-1802.	7.2	133
74	Adaptive Tracking Control for A Class of Nonlinear Systems With a Fuzzy Dead-Zone Input. IEEE Transactions on Fuzzy Systems, 2015, 23, 193-204.	6.5	133
75	Fuzzy clustering with the entropy of attribute weights. Neurocomputing, 2016, 198, 125-134.	3.5	132
76	Adaptive Neural Network Learning Controller Design for a Class of Nonlinear Systems With Time-Varying State Constraints. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 66-75.	7.2	132
77	Force Sensorless Admittance Control With Neural Learning for Robots With Actuator Saturation. IEEE Transactions on Industrial Electronics, 2020, 67, 3138-3148.	5.2	130
78	Region-Kernel-Based Support Vector Machines for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4810-4824.	2.7	129
79	Cooperative Path Following Ring-Networked Under-Actuated Autonomous Surface Vehicles: Algorithms and Experimental Results. IEEE Transactions on Cybernetics, 2020, 50, 1519-1529.	6.2	124
80	Sliding mode leaderâ€following consensus controllers for secondâ€order nonâ€linear multiâ€agent systems. IET Control Theory and Applications, 2015, 9, 1544-1552.	1.2	123
81	Approximation-Based Adaptive Neural Tracking Control of Nonlinear MIMO Unknown Time-Varying Delay Systems With Full State Constraints. IEEE Transactions on Cybernetics, 2017, 47, 3100-3109.	6.2	123
82	Image encryption using P-Fibonacci transform and decomposition. Optics Communications, 2012, 285, 594-608.	1.0	120
83	Weighted Joint Sparse Representation for Removing Mixed Noise in Image. IEEE Transactions on Cybernetics, 2017, 47, 600-611.	6.2	118
84	Adaptive Fuzzy Leader-Following Consensus Control for Stochastic Multiagent Systems with Heterogeneous Nonlinear Dynamics. IEEE Transactions on Fuzzy Systems, 2017, 25, 181-190.	6.5	116
85	Optimized Multi-Agent Formation Control Based on an Identifierâ€"Actorâ€"Critic Reinforcement Learning Algorithm. IEEE Transactions on Fuzzy Systems, 2018, 26, 2719-2731.	6.5	115
86	Adaptive Neural Control for Dual-Arm Coordination of Humanoid Robot With Unknown Nonlinearities in Output Mechanism. IEEE Transactions on Cybernetics, 2015, 45, 507-518.	6.2	114
87	Saturated Nussbaum Function Based Approach for Robotic Systems With Unknown Actuator Dynamics. IEEE Transactions on Cybernetics, 2016, 46, 2311-2322.	6.2	114
88	Simplified Optimized Backstepping Control for a Class of Nonlinear Strict-Feedback Systems With Unknown Dynamic Functions. IEEE Transactions on Cybernetics, 2021, 51, 4567-4580.	6.2	114
89	Motor Learning and Generalization Using Broad Learning Adaptive Neural Control. IEEE Transactions on Industrial Electronics, 2020, 67, 8608-8617.	5.2	112
90	Adaptive Neural Control of a Kinematically Redundant Exoskeleton Robot Using Brainâ€"Machine Interfaces. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 3558-3571.	7.2	111

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91	Event-Trigger-Based Finite-Time Fuzzy Adaptive Control for Stochastic Nonlinear System With Unmodeled Dynamics. IEEE Transactions on Fuzzy Systems, 2021, 29, 1914-1926.	6.5	110
92	Control of nonlinear systems under dynamic constraints: A unified barrier function-based approach. Automatica, 2020, 119, 109102.	3.0	110
93	Adaptive Neural Network Control for a Class of Nonlinear Systems With Function Constraints on States. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 2732-2741.	7.2	110
94	A Novel Adaptive NN Prescribed Performance Control for Stochastic Nonlinear Systems. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3196-3205.	7.2	108
95	3D2SeqViews: Aggregating Sequential Views for 3D Global Feature Learning by CNN With Hierarchical Attention Aggregation. IEEE Transactions on Image Processing, 2019, 28, 3986-3999.	6.0	105
96	A Unified Approach to Adaptive Neural Control for Nonlinear Discrete-Time Systems With Nonlinear Dead-Zone Input. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 139-150.	7.2	104
97	Optimized Adaptive Nonlinear Tracking Control Using Actor–Critic Reinforcement Learning Strategy. IEEE Transactions on Industrial Informatics, 2019, 15, 4969-4977.	7.2	104
98	Adaptive leader-following formation control with collision avoidance for a class of second-order nonlinear multi-agent systems. Neurocomputing, 2019, 350, 282-290.	3.5	104
99	Weighted Couple Sparse Representation With Classified Regularization for Impulse Noise Removal. IEEE Transactions on Image Processing, 2015, 24, 4014-4026.	6.0	103
100	Adaptive Fuzzy Output-Feedback Controller Design for Nonlinear Systems via Backstepping and Small-Gain Approach. IEEE Transactions on Cybernetics, 2014, 44, 1714-1725.	6.2	102
101	Reduced-Order Observer-Based Dynamic Event-Triggered Adaptive NN Control for Stochastic Nonlinear Systems Subject to Unknown Input Saturation. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1678-1690.	7.2	102
102	Fuzzy Adaptive Inverse Compensation Method to Tracking Control of Uncertain Nonlinear Systems With Generalized Actuator Dead Zone. IEEE Transactions on Fuzzy Systems, 2017, 25, 191-204.	6.5	101
103	Regularized robust Broad Learning System for uncertain data modeling. Neurocomputing, 2018, 322, 58-69.	3.5	99
104	Actuator Failure Compensation-Based Adaptive Control of Active Suspension Systems With Prescribed Performance. IEEE Transactions on Industrial Electronics, 2020, 67, 7044-7053.	5.2	97
105	Novel Efficient RNN and LSTM-Like Architectures: Recurrent and Gated Broad Learning Systems and Their Applications for Text Classification. IEEE Transactions on Cybernetics, 2021, 51, 1586-1597.	6.2	97
106	A new weighted mean filter with a two-phase detector for removing impulse noise. Information Sciences, 2015, 315, 1-16.	4.0	95
107	Fault Tolerant Control for Dynamic Positioning of Unmanned Marine Vehicles Based on T-S Fuzzy Model With Unknown Membership Functions. IEEE Transactions on Vehicular Technology, 2021, 70, 146-157.	3.9	92
108	Neural Adaptive Event-Triggered Control for Nonlinear Uncertain Stochastic Systems With Unknown Hysteresis. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 3300-3312.	7.2	89

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109	Discriminative graph regularized broad learning system for image recognition. Science China Information Sciences, 2018, 61, 1.	2.7	88
110	Research Review for Broad Learning System: Algorithms, Theory, and Applications. IEEE Transactions on Cybernetics, 2022, 52, 8922-8950.	6.2	87
111	Adaptive Asymptotic Tracking With Global Performance for Nonlinear Systems With Unknown Control Directions. IEEE Transactions on Automatic Control, 2022, 67, 1566-1573.	3.6	86
112	A Collaborative Fuzzy Clustering Algorithm in Distributed Network Environments. IEEE Transactions on Fuzzy Systems, 2014, 22, 1443-1456.	6.5	85
113	Adaptive backstepping-based tracking control of a class of uncertain switched nonlinear systems. Automatica, 2018, 91, 301-310.	3.0	84
114	Structured Manifold Broad Learning System: A Manifold Perspective for Large-Scale Chaotic Time Series Analysis and Prediction. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 1809-1821.	4.0	84
115	Dissipativity-Based Asynchronous Fuzzy Sliding Mode Control for Tâ€"S Fuzzy Hidden Markov Jump Systems. IEEE Transactions on Cybernetics, 2020, 50, 4020-4030.	6.2	82
116	Optimal Robotâ€"Environment Interaction Under Broad Fuzzy Neural Adaptive Control. IEEE Transactions on Cybernetics, 2021, 51, 3824-3835.	6.2	82
117	Adaptive Fuzzy Asymptotic Control of MIMO Systems With Unknown Input Coefficients Via a Robust Nussbaum Gain-Based Approach. IEEE Transactions on Fuzzy Systems, 2017, 25, 1252-1263.	6.5	80
118	Adaptive Consensus Tracking Control of Uncertain Nonlinear Multiagent Systems With Predefined Accuracy. IEEE Transactions on Cybernetics, 2021, 51, 405-415.	6.2	80
119	Design and Implementation of Deep Neural Network-Based Control for Automatic Parking Maneuver Process. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1400-1413.	7.2	80
120	Guide Subspace Learning for Unsupervised Domain Adaptation. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3374-3388.	7.2	79
121	Adaptive NN Control Without Feasibility Conditions for Nonlinear State Constrained Stochastic Systems With Unknown Time Delays. IEEE Transactions on Cybernetics, 2019, 49, 4485-4494.	6.2	78
122	An integration of neural network and rule-based systems for design and planning of mechanical assemblies. IEEE Transactions on Systems, Man, and Cybernetics, 1993, 23, 1359-1371.	0.9	77
123	The equivalence between fuzzy logic systems and feedforward neural networks. IEEE Transactions on Neural Networks, 2000, 11, 356-365.	4.8	76
124	SCADA communication and security issues. Security and Communication Networks, 2014, 7, 175-194.	1.0	76
125	Adaptive Quantized Controller Design Via Backstepping and Stochastic Small-Gain Approach. IEEE Transactions on Fuzzy Systems, 2016, 24, 330-343.	6.5	76
126	Disturbance Observer-Based Fuzzy Control of Uncertain MIMO Mechanical Systems With Input Nonlinearities and its Application to Robotic Exoskeleton. IEEE Transactions on Cybernetics, 2017, 47, 984-994.	6.2	76

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127	Regularization parameter estimation for feedforward neural networks. IEEE Transactions on Systems, Man, and Cybernetics, 2003, 33, 35-44.	5.5	75
128	Adaptive Reinforcement Learning Control Based on Neural Approximation for Nonlinear Discrete-Time Systems With Unknown Nonaffine Dead-Zone Input. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 295-305.	7.2	75
129	Six-DOF Spacecraft Optimal Trajectory Planning and Real-Time Attitude Control: A Deep Neural Network-Based Approach. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 5005-5013.	7.2	75
130	(n, k, p)-Gray code for image systems. IEEE Transactions on Cybernetics, 2013, 43, 515-529.	6.2	74
131	Adaptive Fuzzy Tracking Control of Nonlinear Systems With Asymmetric Actuator Backlash Based on a New Smooth Inverse. IEEE Transactions on Cybernetics, 2016, 46, 1250-1262.	6.2	74
132	An adaptive hybrid pattern for noise-robust texture analysis. Pattern Recognition, 2015, 48, 2592-2608.	5.1	73
133	Adaptive asymptotic tracking control of uncertain nonlinear system with input quantization. Systems and Control Letters, 2016, 96, 23-29.	1.3	73
134	Automatic Leaderâ€"Follower Persistent Formation Generation With Minimum Agent-Movement in Various Switching Topologies. IEEE Transactions on Cybernetics, 2020, 50, 1569-1581.	6.2	73
135	Neural-Network-Based Adaptive DSC Design for Switched Fractional-Order Nonlinear Systems. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 4703-4712.	7.2	72
136	Finite-Time Adaptive Quantized Control of Stochastic Nonlinear Systems With Input Quantization: A Broad Learning System Based Identification Method. IEEE Transactions on Industrial Electronics, 2020, 67, 8555-8565.	5.2	71
137	TOA-Based Passive Localization in Quasi-Synchronous Networks. IEEE Communications Letters, 2014, 18, 592-595.	2.5	70
138	Hyperspectral Imagery Classification Based on Semi-Supervised Broad Learning System. Remote Sensing, 2018, 10, 685.	1.8	70
139	Optimized Formation Control Using Simplified Reinforcement Learning for a Class of Multiagent Systems With Unknown Dynamics. IEEE Transactions on Industrial Electronics, 2020, 67, 7879-7888.	5.2	70
140	Fuzzy Observer Constraint Based on Adaptive Control for Uncertain Nonlinear MIMO Systems With Time-Varying State Constraints. IEEE Transactions on Cybernetics, 2021, 51, 1380-1389.	6.2	70
141	Neural Approximation-Based Adaptive Control for a Class of Nonlinear Nonstrict Feedback Discrete-Time Systems. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1531-1541.	7.2	69
142	Event-Triggered Fault Detector and Controller Coordinated Design of Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2018, 26, 2004-2016.	6.5	68
143	A Data-Emergency-Aware Scheduling Scheme for Internet of Things in Smart Cities. IEEE Transactions on Industrial Informatics, 2018, 14, 2042-2051.	7.2	68
144	Neural-Dynamic Optimization-Based Model Predictive Control for Tracking and Formation of Nonholonomic Multirobot Systems. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 6113-6122.	7.2	68

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145	Multi Pseudo Q-Learning-Based Deterministic Policy Gradient for Tracking Control of Autonomous Underwater Vehicles. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 3534-3546.	7.2	68
146	A Learning-Based Hierarchical Control Scheme for an Exoskeleton Robot in Human–Robot Cooperative Manipulation. IEEE Transactions on Cybernetics, 2020, 50, 112-125.	6.2	68
147	Cluster number selection for a small set of samples using the Bayesian Ying-Yang model. IEEE Transactions on Neural Networks, 2002, 13, 757-763.	4.8	67
148	Adaptive NN-DSC control design for path following of underactuated surface vessels with input saturation. Neurocomputing, 2017, 267, 466-474.	3.5	67
149	Weighted Broad Learning System and Its Application in Nonlinear Industrial Process Modeling. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3017-3031.	7.2	67
150	Adaptive NN event-triggered control for path following of underactuated vessels with finite-time convergence. Neurocomputing, 2020, 379, 203-213.	3.5	67
151	Fixed-Time Adaptive Fuzzy Control for Uncertain Nonlinear Systems. IEEE Transactions on Fuzzy Systems, 2021, 29, 3769-3781.	6.5	67
152	Line-of-Sight Target Enclosing of an Underactuated Autonomous Surface Vehicle With Experiment Results. IEEE Transactions on Industrial Informatics, 2020, 16, 832-841.	7.2	66
153	ApLeaf: An efficient android-based plant leaf identification system. Neurocomputing, 2015, 151, 1112-1119.	3.5	65
154	Sparse discriminative multi-manifold embedding for one-sample face identification. Pattern Recognition, 2016, 52, 249-259.	5.1	65
155	A Fuzzy Restricted Boltzmann Machine: Novel Learning Algorithms Based on the Crisp Possibilistic Mean Value of Fuzzy Numbers. IEEE Transactions on Fuzzy Systems, 2018, 26, 117-130.	6.5	64
156	Asymmetric Actuator Backlash Compensation in Quantized Adaptive Control of Uncertain Networked Nonlinear Systems. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 294-307.	7.2	63
157	Term Selection for a Class of Separable Nonlinear Models. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 445-451.	7.2	63
158	Bandwidth degradation QoS provisioning for adaptive multimedia in wireless/mobile networks. Computer Communications, 2002, 25, 1153-1161.	3.1	62
159	Fuzzy Approximation-Based Adaptive Control of Nonlinear Uncertain State Constrained Systems With Time-Varying Delays. IEEE Transactions on Fuzzy Systems, 2020, 28, 1620-1630.	6.5	62
160	Hybrid Classifier Ensemble for Imbalanced Data. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1387-1400.	7.2	62
161	Stacked Broad Learning System: From Incremental Flatted Structure to Deep Model. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 209-222.	5.9	62
162	Distributed Fault-Tolerant Containment Control Protocols for the Discrete-Time Multiagent Systems via Reinforcement Learning Method. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 3979-3991.	7.2	62

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163	Clustering by Local Gravitation. IEEE Transactions on Cybernetics, 2018, 48, 1383-1396.	6.2	61
164	Event Trigger Fuzzy Adaptive Compensation Control of Uncertain Stochastic Nonlinear Systems With Actuator Failures. IEEE Transactions on Fuzzy Systems, 2018, 26, 3770-3781.	6.5	60
165	EEG Emotion Recognition Using Dynamical Graph Convolutional Neural Networks and Broad Learning System. , 2018, , .		59
166	Adaptive Fuzzy Dynamic Surface Control of Nonlinear Constrained Systems With Unknown Virtual Control Coefficients. IEEE Transactions on Fuzzy Systems, 2020, 28, 1737-1747.	6.5	58
167	Efficient scheduling algorithms for robot inverse dynamics computation on a multiprocessor system. IEEE Transactions on Systems, Man, and Cybernetics, 1988, 18, 729-743.	0.9	57
168	Adaptive Neural Control of a Class of Stochastic Nonlinear Uncertain Systems With Guaranteed Transient Performance. IEEE Transactions on Cybernetics, 2020, 50, 2971-2981.	6.2	57
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