

C L Philip Chen

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133
papers

8,588
citations

51
h-index

91
g-index

153
ext. papers

10,971
ext. citations

6.8
avg, IF

7.38
L-index

#	Paper	IF	Citations
133	Broad Learning System: An Effective and Efficient Incremental Learning System Without the Need for Deep Architecture. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 10-24	10.3	586
132	Fuzzy neural network-based adaptive control for a class of uncertain nonlinear stochastic systems. <i>IEEE Transactions on Cybernetics</i> , 2014 , 44, 583-93	10.2	382
131	Observer-Based Adaptive Backstepping Consensus Tracking Control for High-Order Nonlinear Semi-Strict-Feedback Multiagent Systems. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 1591-601	10.2	380
130	Adaptive Consensus Control for a Class of Nonlinear Multiagent Time-Delay Systems Using Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014 , 25, 1217-1226	10.3	369
129	Neural Network Control-Based Adaptive Learning Design for Nonlinear Systems With Full-State Constraints. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016 , 27, 1562-71	10.3	323
128	Adaptive neural output feedback tracking control for a class of uncertain discrete-time nonlinear systems. <i>IEEE Transactions on Neural Networks</i> , 2011 , 22, 1162-7		295
127	Adaptive neural output feedback controller design with reduced-order observer for a class of uncertain nonlinear SISO systems. <i>IEEE Transactions on Neural Networks</i> , 2011 , 22, 1328-34		194
126	Integral Barrier Lyapunov function-based adaptive control for switched nonlinear systems. <i>Science China Information Sciences</i> , 2020 , 63, 1	3.4	181
125	Fuzzy Observed-Based Adaptive Consensus Tracking Control for Second-Order Multiagent Systems With Heterogeneous Nonlinear Dynamics. <i>IEEE Transactions on Fuzzy Systems</i> , 2016 , 24, 906-915	8.3	177
124	Reinforcement learning design-based adaptive tracking control with less learning parameters for nonlinear discrete-time MIMO systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 165-76	10.3	173
123	Fuzzy Adaptive Finite-Time Control Design for Nontriangular Stochastic Nonlinear Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2019 , 27, 172-184	8.3	169
122	Output-feedback adaptive neural control for stochastic nonlinear time-varying delay systems with unknown control directions. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 1188-2017	10.3	166
121	Adaptive Fuzzy Output Feedback Control for a Class of Nonlinear Systems With Full State Constraints. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 2607-2617	8.3	166
120	Neural Networks-Based Adaptive Control for Nonlinear State Constrained Systems With Input Delay. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 1249-1258	10.2	164
119	Neural Controller Design-Based Adaptive Control for Nonlinear MIMO Systems With Unknown Hysteresis Inputs. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 9-19	10.2	162
118	Finite-Time Filter Decentralized Control for Nonstrict-Feedback Nonlinear Large-Scale Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 3289-3300	8.3	155
117	Universal Approximation Capability of Broad Learning System and Its Structural Variations. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 , 30, 1191-1204	10.3	155

116	Finite-Time Formation Control of Under-Actuated Ships Using Nonlinear Sliding Mode Control. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 3243-3253	10.2	146
115	Adaptive NN controller design for a class of nonlinear MIMO discrete-time systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 1007-18	10.3	141
114	Fuzzy Broad Learning System: A Novel Neuro-Fuzzy Model for Regression and Classification. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 414-424	10.2	140
113	A survey of human-centered intelligent robots: issues and challenges. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2017 , 4, 602-609	7	139
112	Predictive Deep Boltzmann Machine for Multiperiod Wind Speed Forecasting. <i>IEEE Transactions on Sustainable Energy</i> , 2015 , 6, 1416-1425	8.2	133
111	Fuzzy Restricted Boltzmann Machine for the Enhancement of Deep Learning. <i>IEEE Transactions on Fuzzy Systems</i> , 2015 , 23, 2163-2173	8.3	132
110	Design of Highly Nonlinear Substitution Boxes Based on I-Ching Operators. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 3349-3358	10.2	125
109	Adaptive NN Control Using Integral Barrier Lyapunov Functionals for Uncertain Nonlinear Block-Triangular Constraint Systems. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 3747-3757	10.2	118
108	Adaptive Neural Network Control for Active Suspension Systems With Time-Varying Vertical Displacement and Speed Constraints. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 9458-9466	8.9	117
107	Neural Network Filtering Control Design for Nontriangular Structure Switched Nonlinear Systems in Finite Time. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 , 30, 2153-2162	10.3	113
106	Adaptive Robust Output Feedback Control for a Marine Dynamic Positioning System Based on a High-Gain Observer. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 2775-86	10.3	110
105	Adaptive Tracking Control for A Class of Nonlinear Systems With a Fuzzy Dead-Zone Input. <i>IEEE Transactions on Fuzzy Systems</i> , 2015 , 23, 193-204	8.3	107
104	Neural Network Controller Design for a Class of Nonlinear Delayed Systems With Time-Varying Full-State Constraints. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 , 30, 2625-2636	10.3	104
103	Region-Kernel-Based Support Vector Machines for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015 , 53, 4810-4824	8.1	102
102	Approximation-Based Adaptive Neural Tracking Control of Nonlinear MIMO Unknown Time-Varying Delay Systems With Full State Constraints. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 3100-3109	10.2	97
101	Adaptive Fuzzy Tracking Control of Nonlinear Time-Delay Systems With Dead-Zone Output Mechanism Based on a Novel Smooth Model. <i>IEEE Transactions on Fuzzy Systems</i> , 2015 , 23, 1998-2011	8.3	97
100	Adaptive fuzzy output-feedback controller design for nonlinear systems via backstepping and small-gain approach. <i>IEEE Transactions on Cybernetics</i> , 2014 , 44, 1714-25	10.2	95
99	Intelligent Prognostics for Battery Health Monitoring Using the Mean Entropy and Relevance Vector Machine. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2014 , 44, 851-862	7.3	93

98	A Unified Approach to Adaptive Neural Control for Nonlinear Discrete-Time Systems With Nonlinear Dead-Zone Input. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016 , 27, 139-50 ^{10.3}	91
97	Recurrent Broad Learning Systems for Time Series Prediction. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 1405-1417	10.2 88
96	. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 5752-5762	8.9 87
95	GCB-Net: Graph Convolutional Broad Network and Its Application in Emotion Recognition. <i>IEEE Transactions on Affective Computing</i> , 2019 , 1-1	5.7 85
94	Fuzzy Adaptive Inverse Compensation Method to Tracking Control of Uncertain Nonlinear Systems With Generalized Actuator Dead Zone. <i>IEEE Transactions on Fuzzy Systems</i> , 2017 , 25, 191-204	8.3 83
93	Adaptive Fuzzy Leader-Following Consensus Control for Stochastic Multiagent Systems with Heterogeneous Nonlinear Dynamics. <i>IEEE Transactions on Fuzzy Systems</i> , 2017 , 25, 181-190	8.3 83
92	Underwater Internet of Things in Smart Ocean: System Architecture and Open Issues. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 4297-4307	11.9 80
91	I-Ching Divination Evolutionary Algorithm and its Convergence Analysis. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 2-13	10.2 78
90	Motor Learning and Generalization Using Broad Learning Adaptive Neural Control. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 8608-8617	8.9 65
89	Adaptive Fuzzy Asymptotic Control of MIMO Systems With Unknown Input Coefficients Via a Robust Nussbaum Gain-Based Approach. <i>IEEE Transactions on Fuzzy Systems</i> , 2017 , 25, 1252-1263	8.3 62
88	Neural Approximation-Based Adaptive Control for a Class of Nonlinear Nonstrict Feedback Discrete-Time Systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017 , 28, 1531-1541 ^{10.3}	61
87	Adaptive Fuzzy Tracking Control of Nonlinear Systems With Asymmetric Actuator Backlash Based on a New Smooth Inverse. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 1250-62	10.2 60
86	Adaptive Neural Network Learning Controller Design for a Class of Nonlinear Systems With Time-Varying State Constraints. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 66-75	10.3 59
85	SCADA communication and security issues. <i>Security and Communication Networks</i> , 2014 , 7, 175-194	1.9 56
84	Discriminative graph regularized broad learning system for image recognition. <i>Science China Information Sciences</i> , 2018 , 61, 1	3.4 54
83	Actuator Failure Compensation-Based Adaptive Control of Active Suspension Systems With Prescribed Performance. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 7044-7053	8.9 53
82	Event-Triggered Fault Detector and Controller Coordinated Design of Fuzzy Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 2004-2016	8.3 50
81	Hyperspectral Imagery Classification Based on Semi-Supervised Broad Learning System. <i>Remote Sensing</i> , 2018 , 10, 685	5 50

80	Adaptive NN Control Without Feasibility Conditions for Nonlinear State Constrained Stochastic Systems With Unknown Time Delays. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 4485-4494	10.2	48
79	A Fuzzy Restricted Boltzmann Machine: Novel Learning Algorithms Based on the Crisp Possibilistic Mean Value of Fuzzy Numbers. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 117-130	8.3	46
78	Structured Manifold Broad Learning System: A Manifold Perspective for Large-Scale Chaotic Time Series Analysis and Prediction. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2019 , 31, 1809-1824	11.2	45
77	Adaptive Neural Network Control for a DC Motor System with Dead-Zone. <i>Nonlinear Dynamics</i> , 2013 , 72, 141-147	5	44
76	Finite-Time Adaptive Quantized Control of Stochastic Nonlinear Systems With Input Quantization: A Broad Learning System Based Identification Method. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 8555-8565	8.9	37
75	Optimal Robot-Environment Interaction Under Broad Fuzzy Neural Adaptive Control. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 3824-3835	10.2	36
74	Adaptive NN event-triggered control for path following of underactuated vessels with finite-time convergence. <i>Neurocomputing</i> , 2020 , 379, 203-213	5.4	33
73	A Novel Adaptive NN Prescribed Performance Control for Stochastic Nonlinear Systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 3196-3205	10.3	32
72	Hierarchical Feature Extraction With Local Neural Response for Image Recognition. <i>IEEE Transactions on Cybernetics</i> , 2013 , 43, 412-24	10.2	31
71	Weighted Broad Learning System and Its Application in Nonlinear Industrial Process Modeling. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 3017-3031	10.3	30
70	Reduced-Order Observer-Based Dynamic Event-Triggered Adaptive NN Control for Stochastic Nonlinear Systems Subject to Unknown Input Saturation. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 1678-1690	10.3	30
69	Adaptive Consensus Tracking Control of Uncertain Nonlinear Multiagent Systems With Predefined Accuracy. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 405-415	10.2	30
68	Fuzzy Approximation-Based Adaptive Control of Nonlinear Uncertain State Constrained Systems With Time-Varying Delays. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 28, 1620-1630	8.3	29
67	Fault Tolerant Control for Dynamic Positioning of Unmanned Marine Vehicles Based on T-S Fuzzy Model With Unknown Membership Functions. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 146-157	6.8	28
66	EEG Emotion Recognition Using Dynamical Graph Convolutional Neural Networks and Broad Learning System 2018 ,		25
65	Swarm Control for Self-Organized System With Fixed and Switching Topology. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 4481-4494	10.2	24
64	GreenSea: Visual Soccer Analysis Using Broad Learning System. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 1463-1477	10.2	24
63	Broad learning system: Structural extensions on single-layer and multi-layer neural networks 2017 ,		23

62	Hyperspectral Image Clustering Based on Unsupervised Broad Learning. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019 , 16, 1741-1745	4.1	22
61	Broad learning system: Feature extraction based on K-means clustering algorithm 2017 ,		22
60	Adaptive Tracking Control of Cooperative Robot Manipulators With Markovian Switched Couplings. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 2427-2436	8.9	22
59	Smooth Transition in Communication for Swarm Control With Formation Change. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 6962-6971	11.9	20
58	Fuzzy Observer Constraint Based on Adaptive Control for Uncertain Nonlinear MIMO Systems With Time-Varying State Constraints. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 1380-1389	10.2	20
57	AS-NAS: Adaptive Scalable Neural Architecture Search With Reinforced Evolutionary Algorithm for Deep Learning. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 25, 830-841	15.6	17
56	Generative and Discriminative Fuzzy Restricted Boltzmann Machine Learning for Text and Image Classification. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 2237-2248	10.2	15
55	Broad Learning System for Control of Nonlinear Dynamic Systems 2018 ,		14
54	Fuzzy adaptive optimal control for nonlinear switched systems with actuator hysteresis. <i>International Journal of Adaptive Control and Signal Processing</i> , 2019 , 33, 609-625	2.8	13
53	Nonlinear system identification using a simplified Fuzzy Broad Learning System: Stability analysis and a comparative study. <i>Neurocomputing</i> , 2019 , 337, 274-286	5.4	13
52	. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 5184-5196	8.9	12
51	. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 2476-2487	11.9	12
50	Hybrid Transfer Learning and Broad Learning System for Wearing Mask Detection in the COVID-19 Era. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-12	5.2	12
49	Adaptive Finite-Time Control for Half-Vehicle Active Suspension Systems With Uncertain Dynamics. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 1-1	5.5	11
48	. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 1-1	8.3	11
47	Low-Cost Approximation-Based Adaptive Tracking Control of Output-Constrained Nonlinear Systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 4890-4900	10.3	11
46	Adaptive Deep Cascade Broad Learning System and Its Application in Image Denoising. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 4450-4463	10.2	10
45	Multiview High Dynamic Range Image Synthesis Using Fuzzy Broad Learning System. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 2735-2747	10.2	10

44	BMT-Net: Broad Multitask Transformer Network for Sentiment Analysis. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	10
43	Direct adaptive compensation for actuator failures and dead-Zone constraints in tracking control of uncertain nonlinear systems. <i>Information Sciences</i> , 2017 , 417, 328-343	7.7	9
42	Fixed-Time Fuzzy Control for a Class of Nonlinear Systems. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	9
41	Consensus Control With Failure--Wait or Abandon?. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 75-84	10.2	8
40	Adaptive Critic Design for Pure-Feedback Discrete-Time MIMO Systems Preceded by Unknown Backlashlike Hysteresis. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 5681-5690 ^{10.3}		8
39	Random-Positioned License Plate Recognition Using Hybrid Broad Learning System and Convolutional Networks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 1-13	6.1	8
38	Grid index subspace constructed locally weighted learning identification modeling for high dimensional ship maneuvering system. <i>ISA Transactions</i> , 2019 , 86, 144-152	5.5	8
37	Transductive Transfer Learning Based on Broad Learning System 2018 ,		8
36	Finite-Time Adaptive Fuzzy Prescribed Performance Control for High-Order Stochastic Nonlinear Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 1-1	8.3	7
35	Semisupervised Classification of Hyperspectral Image Based on Graph Convolutional Broad Network. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021 , 14, 2995-3005 ^{4.7}		7
34	Weighted Generalized Cross-Validation-Based Regularization for Broad Learning System. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	6
33	Maximum Information Exploitation Using Broad Learning System for Large-Scale Chaotic Time-Series Prediction. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 2320-2329 ^{10.3}		6
32	Optical reflection invariant-based method for moving shadows removal. <i>Optical Engineering</i> , 2018 , 57, 1	1.1	5
31	A New Local Knowledge-Based Collaborative Representation for Image Recognition. <i>IEEE Access</i> , 2020 , 8, 81069-81079	3.5	4
30	An automatic setting for training restricted boltzmann machine 2014 ,		4
29	A novel evolutionary algorithm solving optimization problems 2014 ,		4
28	Hyperspectral Image Classification Based on Domain Adversarial Broad Adaptation Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-1	8.1	4
27	. <i>IEEE Transactions on Multimedia</i> , 2020 , 22, 2221-2233	6.6	4

26	Neural-network-based formation control with collision, obstacle avoidance and connectivity maintenance for a class of second-order nonlinear multi-agent systems. <i>Neurocomputing</i> , 2021 , 439, 243-255	5.4	4
25	Multi-Kernel Broad Learning systems Based on Random Features:A Novel Expansion for Nonlinear Feature Nodes 2019 ,		4
24	Adaptive Swarm Control Within Saturated Input Based on Nonlinear Coupling Degree. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-12	7.3	4
23	Extended dimension fuzzy adaptive control for nonlinear uncertain stochastic systems with actuator constraints. <i>Nonlinear Dynamics</i> , 2019 , 98, 1315-1329	5	3
22	Fuzzy Clustering in Cascaded Feature Space. <i>International Journal of Fuzzy Systems</i> , 2019 , 21, 2155-2167	3.6	3
21	Fuzzy restricted Boltzmann machine and deep belief network: A comparison on image reconstruction 2017 ,		3
20	. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2021 , 33, 2847-2862	4.2	3
19	License Plate Character Segmentation Using Key Character Location and Projection Analysis 2018 ,		3
18	Globally and Locally Semantic Colorization via Exemplar-Based Broad-GAN. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 8526-8539	8.7	2
17	A Hybrid Recursive Implementation of Broad Learning With Incremental Features. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , PP,	10.3	2
16	Broad Colorization. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 2330-2343	10.3	2
15	A neighborhood prior constrained collaborative representation for classification. <i>International Journal of Wavelets, Multiresolution and Information Processing</i> , 2021 , 19, 2050073	0.9	2
14	Adaptive Intelligent Controller Design-Based ISS Modular Approach for Uncertain Nonlinear Systems with Time-Varying Full State Constraints. <i>IEEE Transactions on Artificial Intelligence</i> , 2021 , 1-1	4.7	2
13	Forecast Application of Time Series Model Based on BLS in Port Cargo Throughput 2018 ,		2
12	A Survey on Masked Facial Detection Methods and Datasets for Fighting Against COVID-19. <i>IEEE Transactions on Artificial Intelligence</i> , 2022 , 1-1	4.7	1
11	Virtual Structure Formation Control via Sliding Mode Control and Neural Networks. <i>Lecture Notes in Computer Science</i> , 2017 , 101-108	0.9	1
10	Adaptive neural consensus tracking control for multi-agent systems with unknown state and input hysteresis. <i>Nonlinear Dynamics</i> , 2021 , 105, 1625-1641	5	1
9	Event-triggered-based Adaptive Output Feedback Control with Prescribed Performance for Strict-feedback Nonlinear Systems 2019 ,		1

8	Performance analysis of fuzzy BLS using different cluster methods for classification. <i>Science China Information Sciences</i> , 2021 , 64, 1	3.4	1
7	Multi-Stage Convolutional Broad Learning with Block Diagonal Constraint for Hyperspectral Image Classification. <i>Remote Sensing</i> , 2021 , 13, 3412	5	0
6	Target tracking algorithm based on a broad learning system. <i>Science China Information Sciences</i> , 2022 , 65, 1	3.4	0
5	Multiscale Random Convolution Broad Learning System for Hyperspectral Image Classification. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021 , 1-5	4.1	0
4	SPRBF-ABLS: a novel attention-based broad learning systems with sparse polynomial-based radial basis function neural networks. <i>Journal of Intelligent Manufacturing</i> ,1	6.7	
3	A Fast Approach of Graph Embedding Using Broad Learning System. <i>Communications in Computer and Information Science</i> , 2019 , 164-172	0.3	
2	An Efficient Algorithm for the Incremental Broad Learning System by Inverse Cholesky Factorization of a Partitioned Matrix. <i>IEEE Access</i> , 2021 , 9, 19294-19303	3.5	
1	Character Segmentation and Recognition of Variable-Length License Plates Using ROI Detection and Broad Learning System. <i>Remote Sensing</i> , 2022 , 14, 1560	5	