C L Philip Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A Survey on Masked Facial Detection Methods and Datasets for Fighting Against COVID-19. *IEEE Transactions on Artificial Intelligence*, **2022**, 1-1	4.7	1
132	Target tracking algorithm based on a broad learning system. *Science China Information Sciences*, **2022**, 65, 1	3.4	0
131	Character Segmentation and Recognition of Variable-Length License Plates Using ROI Detection and Broad Learning System. *Remote Sensing*, **2022**, 14, 1560	5	
130	Adaptive Deep Cascade Broad Learning System and Its Application in Image Denoising. *IEEE Transactions on Cybernetics*, **2021**, 51, 4450-4463	10.2	10
129	Optimal Robot-Environment Interaction Under Broad Fuzzy Neural Adaptive Control. *IEEE Transactions on Cybernetics*, **2021**, 51, 3824-3835	10.2	36
128	Hyperspectral Image Classification Based on Domain Adversarial Broad Adaptation Network. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-1	8.1	4
127	Globally and Locally Semantic Colorization via Exemplar-Based Broad-GAN. *IEEE Transactions on Image Processing*, **2021**, 30, 8526-8539	8.7	2
126	A Novel Adaptive NN Prescribed Performance Control for Stochastic Nonlinear Systems. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 3196-3205	10.3	32
125	Low-Cost Approximation-Based Adaptive Tracking Control of Output-Constrained Nonlinear Systems. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 4890-4900	10.3	11
124	Neural-network-based formation control with collision, obstacle avoidance and connectivity maintenance for a class of second-order nonlinear multi-agent systems. *Neurocomputing*, **2021**, 439, 243-255	5.4	4
123	Adaptive neural consensus tracking control for multi-agent systems with unknown state and input hysteresis. *Nonlinear Dynamics*, **2021**, 105, 1625-1641	5	1
122	GreenSea: Visual Soccer Analysis Using Broad Learning System. *IEEE Transactions on Cybernetics*, **2021**, 51, 1463-1477	10.2	24
121	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	10.3	30
120	. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 5184-5196	8.9	12
119	. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 2476-2487	11.9	12
118	Broad Colorization. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 2330-2343	10.3	2
117	Performance analysis of fuzzy BLS using different cluster methods for classification. *Science China Information Sciences*, **2021**, 64, 1	3.4	1

116	Adaptive Tracking Control of Cooperative Robot Manipulators With Markovian Switched Couplings. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 2427-2436	8.9	22
115	Maximum Information Exploitation Using Broad Learning System for Large-Scale Chaotic Time-Series Prediction. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 2320-2329	10.3	6
114	A neighborhood prior constrained collaborative representation for classification. *International Journal of Wavelets, Multiresolution and Information Processing*, **2021**, 19, 2050073	0.9	2
113	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	10.2	20
112	Adaptive Consensus Tracking Control of Uncertain Nonlinear Multiagent Systems With Predefined Accuracy. *IEEE Transactions on Cybernetics*, **2021**, 51, 405-415	10.2	30
111	Multiview High Dynamic Range Image Synthesis Using Fuzzy Broad Learning System. *IEEE Transactions on Cybernetics*, **2021**, 51, 2735-2747	10.2	10
110	. *IEEE Transactions on Knowledge and Data Engineering*, **2021**, 33, 2847-2862	4.2	3
109	Finite-Time Adaptive Fuzzy Prescribed Performance Control for High-Order Stochastic Nonlinear Systems. *IEEE Transactions on Fuzzy Systems*, **2021**, 1-1	8.3	7
108	An Efficient Algorithm for the Incremental Broad Learning System by Inverse Cholesky Factorization of a Partitioned Matrix. *IEEE Access*, **2021**, 9, 19294-19303	3.5	
107	Adaptive Intelligent Controller Design-Based ISS Modular Approach for Uncertain Nonlinear Systems with Time-Varying Full State Constraints. *IEEE Transactions on Artificial Intelligence*, **2021**, 1-1	4.7	2
106	Hybrid Transfer Learning and Broad Learning System for Wearing Mask Detection in the COVID-19 Era. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-12	5.2	12
105	Adaptive Swarm Control Within Saturated Input Based on Nonlinear Coupling Degree. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-12	7.3	4
104	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	6.8	28
103	Multi-Stage Convolutional Broad Learning with Block Diagonal Constraint for Hyperspectral Image Classification. *Remote Sensing*, **2021**, 13, 3412	5	0
102	AS-NAS: Adaptive Scalable Neural Architecture Search With Reinforced Evolutionary Algorithm for Deep Learning. *IEEE Transactions on Evolutionary Computation*, **2021**, 25, 830-841	15.6	17
101	BMT-Net: Broad Multitask Transformer Network for Sentiment Analysis. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	10
100	Multiscale Random Convolution Broad Learning System for Hyperspectral Image Classification. *IEEE Geoscience and Remote Sensing Letters*, **2021**, 1-5	4.1	0
99	Semisupervised Classification of Hyperspectral Image Based on Graph Convolutional Broad Network. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2021**, 14, 2993-3005	4.7	7

98	Smooth Transition in Communication for Swarm Control With Formation Change. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 6962-6971	11.9	20
97	Integral Barrier Lyapunov function-based adaptive control for switched nonlinear systems. *Science China Information Sciences*, **2020**, 63, 1	3.4	181
96	A New Local Knowledge-Based Collaborative Representation for Image Recognition. *IEEE Access*, **2020**, 8, 81069-81079	3.5	4
95	A Hybrid Recursive Implementation of Broad Learning With Incremental Features. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, PP,	10.3	2
94	Actuator Failure Compensation-Based Adaptive Control of Active Suspension Systems With Prescribed Performance. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 7044-7053	8.9	53
93	Underwater Internet of Things in Smart Ocean: System Architecture and Open Issues. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 4297-4307	11.9	80
92	Adaptive NN event-triggered control for path following of underactuated vessels with finite-time convergence. *Neurocomputing*, **2020**, 379, 203-213	5.4	33
91	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	8.9	37
90	Swarm Control for Self-Organized System With Fixed and Switching Topology. *IEEE Transactions on Cybernetics*, **2020**, 50, 4481-4494	10.2	24
89	Motor Learning and Generalization Using Broad Learning Adaptive Neural Control. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 8608-8617	8.9	65
88	. *IEEE Transactions on Multimedia*, **2020**, 22, 2221-2233	6.6	4
87	Adaptive Finite-Time Control for Half-Vehicle Active Suspension Systems With Uncertain Dynamics. *IEEE/ASME Transactions on Mechatronics*, **2020**, 1-1	5.5	11
86	. *IEEE Transactions on Fuzzy Systems*, **2020**, 1-1	8.3	11
85	Weighted Generalized Cross-Validation-Based Regularization for Broad Learning System. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	6
84	Fixed-Time Fuzzy Control for a Class of Nonlinear Systems. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	9
83	Random-Positioned License Plate Recognition Using Hybrid Broad Learning System and Convolutional Networks. *IEEE Transactions on Intelligent Transportation Systems*, **2020**, 1-13	6.1	8
82	Recurrent Broad Learning Systems for Time Series Prediction. *IEEE Transactions on Cybernetics*, **2020**, 50, 1405-1417	10.2	88
81	Generative and Discriminative Fuzzy Restricted Boltzmann Machine Learning for Text and Image Classification. *IEEE Transactions on Cybernetics*, **2020**, 50, 2237-2248	10.2	15

80	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	10.3	59
79	Fuzzy Broad Learning System: A Novel Neuro-Fuzzy Model for Regression and Classification. *IEEE Transactions on Cybernetics*, **2020**, 50, 414-424	10.2	140
78	Weighted Broad Learning System and Its Application in Nonlinear Industrial Process Modeling. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 3017-3031	10.3	30
77	Fuzzy Approximation-Based Adaptive Control of Nonlinear Uncertain State Constrained Systems With Time-Varying Delays. *IEEE Transactions on Fuzzy Systems*, **2020**, 28, 1620-1630	8.3	29
76	Hyperspectral Image Clustering Based on Unsupervised Broad Learning. *IEEE Geoscience and Remote Sensing Letters*, **2019**, 16, 1741-1745	4.1	22
75	GCB-Net: Graph Convolutional Broad Network and Its Application in Emotion Recognition. *IEEE Transactions on Affective Computing*, **2019**, 1-1	5.7	85
74	Extended dimension fuzzy adaptive control for nonlinear uncertain stochastic systems with actuator constraints. *Nonlinear Dynamics*, **2019**, 98, 1315-1329	5	3
73	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	8.9	117
72	Adaptive NN Control Without Feasibility Conditions for Nonlinear State Constrained Stochastic Systems With Unknown Time Delays. *IEEE Transactions on Cybernetics*, **2019**, 49, 4485-4494	10.2	48
71	Fuzzy adaptive optimal control for nonlinear switched systems with actuator hysteresis. *International Journal of Adaptive Control and Signal Processing*, **2019**, 33, 609-625	2.8	13
70	Nonlinear system identification using a simplified Fuzzy Broad Learning System: Stability analysis and a comparative study. *Neurocomputing*, **2019**, 337, 274-286	5.4	13
69	Fuzzy Clustering in Cascaded Feature Space. *International Journal of Fuzzy Systems*, **2019**, 21, 2155-2167	3.6	3
68	A Fast Approach of Graph Embedding Using Broad Learning System. *Communications in Computer and Information Science*, **2019**, 164-172	0.3	
67	Multi-Kernel Broad Learning systems Based on Random Features:A Novel Expansion for Nonlinear Feature Nodes **2019**,		4
66	Event-triggered-based Adaptive Output Feedback Control with Prescribed Performance for Strict-feedback Nonlinear Systems **2019**,		1
65	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	4.2	45
64	Universal Approximation Capability of Broad Learning System and Its Structural Variations. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 1191-1204	10.3	155
63	Grid index subspace constructed locally weighted learning identification modeling for high dimensional ship maneuvering system. *ISA Transactions*, **2019**, 86, 144-152	5.5	8

62	Fuzzy Adaptive Finite-Time Control Design for Nontriangular Stochastic Nonlinear Systems. *IEEE Transactions on Fuzzy Systems*, **2019**, 27, 172-184	8.3	169
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	10.3	113
60	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	10.3	104
59	Neural Networks-Based Adaptive Control for Nonlinear State Constrained Systems With Input Delay. *IEEE Transactions on Cybernetics*, **2019**, 49, 1249-1258	10.2	164
58	Adaptive Fuzzy Output Feedback Control for a Class of Nonlinear Systems With Full State Constraints. *IEEE Transactions on Fuzzy Systems*, **2018**, 26, 2607-2617	8.3	166
57	Event-Triggered Fault Detector and Controller Coordinated Design of Fuzzy Systems. *IEEE Transactions on Fuzzy Systems*, **2018**, 26, 2004-2016	8.3	50
56	Finite-Time Formation Control of Under-Actuated Ships Using Nonlinear Sliding Mode Control. *IEEE Transactions on Cybernetics*, **2018**, 48, 3243-3253	10.2	146
55	Finite-Time Filter Decentralized Control for Nonstrict-Feedback Nonlinear Large-Scale Systems. *IEEE Transactions on Fuzzy Systems*, **2018**, 26, 3289-3300	8.3	155
54	Adaptive Critic Design for Pure-Feedback Discrete-Time MIMO Systems Preceded by Unknown Backlashlike Hysteresis. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 5681-5690	10.3	8
53	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	8.3	46
52	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	10.3	586
51	Design of Highly Nonlinear Substitution Boxes Based on I-Ching Operators. *IEEE Transactions on Cybernetics*, **2018**, 48, 3349-3358	10.2	125
50	Hyperspectral Imagery Classification Based on Semi-Supervised Broad Learning System. *Remote Sensing*, **2018**, 10, 685	5	50
49	Optical reflection invariant-based method for moving shadows removal. *Optical Engineering*, **2018**, 57, 1	1.1	5
48	Broad Learning System for Control of Nonlinear Dynamic Systems **2018**,		14
47	Transductive Transfer Learning Based on Broad Learning System **2018**,		8
46	EEG Emotion Recognition Using Dynamical Graph Convolutional Neural Networks and Broad Learning System **2018**,		25
45	Discriminative graph regularized broad learning system for image recognition. *Science China Information Sciences*, **2018**, 61, 1	3.4	54

44	Forecast Application of Time Series Model Based on BLS in Port Cargo Throughput **2018**,		2
43	License Plate Character Segmentation Using Key Character Location and Projection Analysis **2018**,		3
42	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	10.3	61
41	I-Ching Divination Evolutionary Algorithm and its Convergence Analysis. *IEEE Transactions on Cybernetics*, **2017**, 47, 2-13	10.2	78
40	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	8.3	83
39	Adaptive Fuzzy Leader-Following Consensus Control for Stochastic Multiagent Systems with Heterogeneous Nonlinear Dynamics. *IEEE Transactions on Fuzzy Systems*, **2017**, 25, 181-190	8.3	83
38	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	10.2	97
37	A survey of human-centered intelligent robots: issues and challenges. *IEEE/CAA Journal of Automatica Sinica*, **2017**, 4, 602-609	7	139
36	Direct adaptive compensation for actuator failures and dead-Zone constraints in tracking control of uncertain nonlinear systems. *Information Sciences*, **2017**, 417, 328-343	7.7	9
35	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	8.3	62
34	Adaptive NN Control Using Integral Barrier Lyapunov Functionals for Uncertain Nonlinear Block-Triangular Constraint Systems. *IEEE Transactions on Cybernetics*, **2017**, 47, 3747-3757	10.2	118
33	Broad learning system: Feature extraction based on K-means clustering algorithm **2017**,		22
32	Broad learning system: Structural extensions on single-layer and multi-layer neural networks **2017**,		23
31	Fuzzy restricted Boltzmann machine and deep belief network: A comparison on image reconstruction **2017**,		3
30	Virtual Structure Formation Control via Sliding Mode Control and Neural Networks. *Lecture Notes in Computer Science*, **2017**, 101-108	0.9	1
29	Adaptive Fuzzy Tracking Control of Nonlinear Systems With Asymmetric Actuator Backlash Based on a New Smooth Inverse. *IEEE Transactions on Cybernetics*, **2016**, 46, 1250-62	10.2	60
28	Observer-Based Adaptive Backstepping Consensus Tracking Control for High-Order Nonlinear Semi-Strict-Feedback Multiagent Systems. *IEEE Transactions on Cybernetics*, **2016**, 46, 1591-601	10.2	380
27	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, 139-50	10.3	91

26	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	8.3	177
25	Consensus Control With Failure--Wait or Abandon?. *IEEE Transactions on Cybernetics*, **2016**, 46, 75-84	10.2	8
24	Neural Controller Design-Based Adaptive Control for Nonlinear MIMO Systems With Unknown Hysteresis Inputs. *IEEE Transactions on Cybernetics*, **2016**, 46, 9-19	10.2	162
23	. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 5752-5762	8.9	87
22	Neural Network Control-Based Adaptive Learning Design for Nonlinear Systems With Full-State Constraints. *IEEE Transactions on Neural Networks and Learning Systems*, **2016**, 27, 1562-71	10.3	323
21	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	8.3	97
20	Predictive Deep Boltzmann Machine for Multiperiod Wind Speed Forecasting. *IEEE Transactions on Sustainable Energy*, **2015**, 6, 1416-1425	8.2	133
19	Region-Kernel-Based Support Vector Machines for Hyperspectral Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2015**, 53, 4810-4824	8.1	102
18	Fuzzy Restricted Boltzmann Machine for the Enhancement of Deep Learning. *IEEE Transactions on Fuzzy Systems*, **2015**, 23, 2163-2173	8.3	132
17	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, 1188-201	10.3	166
16	Adaptive Tracking Control for A Class of Nonlinear Systems With a Fuzzy Dead-Zone Input. *IEEE Transactions on Fuzzy Systems*, **2015**, 23, 193-204	8.3	107
15	Adaptive NN controller design for a class of nonlinear MIMO discrete-time systems. *IEEE Transactions on Neural Networks and Learning Systems*, **2015**, 26, 1007-18	10.3	141
14	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, 2775-86	10.3	110
13	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, 165-76	10.3	173
12	SCADA communication and security issues. *Security and Communication Networks*, **2014**, 7, 175-194	1.9	56
11	Fuzzy neural network-based adaptive control for a class of uncertain nonlinear stochastic systems. *IEEE Transactions on Cybernetics*, **2014**, 44, 583-93	10.2	382
10	Adaptive fuzzy output-feedback controller design for nonlinear systems via backstepping and small-gain approach. *IEEE Transactions on Cybernetics*, **2014**, 44, 1714-25	10.2	95
9	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	10.3	369

8	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	7.3	93
7	An automatic setting for training restricted boltzmann machine **2014**,		4
6	A novel evolutionary algorithm solving optimization problems **2014**,		4
5	Adaptive Neural Network Control for a DC Motor System with Dead-Zone. *Nonlinear Dynamics*, **2013**, 72, 141-147	5	44
4	Hierarchical Feature Extraction With Local Neural Response for Image Recognition. *IEEE Transactions on Cybernetics*, **2013**, 43, 412-24	10.2	31
3	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, 1328-34		194
2	Adaptive neural output feedback tracking control for a class of uncertain discrete-time nonlinear systems. *IEEE Transactions on Neural Networks*, **2011**, 22, 1162-7		295
1	SPRBF-ABLS: a novel attention-based broad learning systems with sparse polynomial-based radial basis function neural networks. *Journal of Intelligent Manufacturing*,1	6.7	