Cong Wang

List of Publications by Year
in descending order

125 papers	3,725 citations	201674 27 h-index	128289 60 g-index
125 all docs	125 docs citations	125 times ranked	1845 citing authors

#	Article	IF	Citations
1	An ISS-modular approach for adaptive neural control of pure-feedback systems. Automatica, 2006, 42, 723-731.	5.0	488
2	Learning From Neural Control. IEEE Transactions on Neural Networks, 2006, 17, 130-146.	4.2	354
3	Neural Learning Control of Marine Surface Vessels With Guaranteed Transient Tracking Performance. IEEE Transactions on Industrial Electronics, 2016, 63, 1717-1727.	7.9	261
4	Platoon Formation Control With Prescribed Performance Guarantees for USVs. IEEE Transactions on Industrial Electronics, 2018, 65, 4237-4246.	7.9	252
5	Identification and Learning Control of Ocean Surface Ship Using Neural Networks. IEEE Transactions on Industrial Informatics, 2012, 8, 801-810.	11.3	202
6	Dynamic Learning From Adaptive Neural Network Control of a Class of Nonaffine Nonlinear Systems. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 111-123.	11.3	185
7	Deterministic Learning and Rapid Dynamical Pattern Recognition. IEEE Transactions on Neural Networks, 2007, 18, 617-630.	4.2	184
8	Learning From Adaptive Neural Dynamic Surface Control of Strict-Feedback Systems. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1247-1259.	11.3	142
9	Dynamic Learning From Neural Control for Strict-Feedback Systems With Guaranteed Predefined Performance. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 2564-2576.	11.3	99
10	Rapid Detection of Small Oscillation Faults via Deterministic Learning. IEEE Transactions on Neural Networks, 2011, 22, 1284-1296.	4.2	82
11	Cooperative Deterministic Learning-Based Formation Control for a Group of Nonlinear Uncertain Mechanical Systems. IEEE Transactions on Industrial Informatics, 2019, 15, 319-333.	11.3	73
12	Learning from neural control of nonlinear systems in normal form. Systems and Control Letters, 2009, 58, 633-638.	2.3	69
13	DETERMINISTIC LEARNING OF NONLINEAR DYNAMICAL SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 1307-1328.	1.7	67
14	Learning From ISS-Modular Adaptive NN Control of Nonlinear Strict-Feedback Systems. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1539-1550.	11.3	67
15	Silhouette-based gait recognition via deterministic learning. Pattern Recognition, 2014, 47, 3568-3584.	8.1	66
16	Fusion of spatial-temporal and kinematic features for gait recognition with deterministic learning. Pattern Recognition, 2017, 67, 186-200.	8.1	56
17	Extracting cardiac dynamics within ECG signal for human identification and cardiovascular diseases classification. Neural Networks, 2018, 100, 70-83.	5.9	56
18	Persistency of excitation and performance of deterministic learning. Systems and Control Letters, 2011, 60, 952-959.	2.3	43

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19	Human gait recognition via deterministic learning. Neural Networks, 2012, 35, 92-102.	5.9	43
20	Radiomics approach for preoperative identification of stages IâˆII and IIIâˆIV of esophageal cancer. Chinese Journal of Cancer Research: Official Journal of China Anti-Cancer Association, Beijing Institute for Cancer Research, 2018, 30, 396-405.	2.2	43
21	Model-Based Human Gait Recognition Via Deterministic Learning. Cognitive Computation, 2014, 6, 218-229.	5.2	42
22	Learning from adaptive neural network output feedback control of uncertain ocean surface ship dynamics. International Journal of Adaptive Control and Signal Processing, 2014, 28, 341-365.	4.1	41
23	Hand gesture recognition using Leap Motion via deterministic learning. Multimedia Tools and Applications, 2018, 77, 28185-28206.	3.9	38
24	Human gait recognition based on deterministic learning through multiple views fusion. Pattern Recognition Letters, 2016, 78, 56-63.	4.2	33
25	Learning from neural control for non-affine systems with full state constraints using command filtering. International Journal of Control, 2020, 93, 2392-2406.	1.9	31
26	Relationship Between Persistent Excitation Levels and RBF Network Structures, With Application to Performance Analysis of Deterministic Learning. IEEE Transactions on Cybernetics, 2017, 47, 3380-3392.	9.5	30
27	Deterministic learning from sampling data. Neurocomputing, 2019, 358, 456-466.	5.9	30
28	Design and performance analysis of deterministic learning of sampled-data nonlinear systems. Science China Information Sciences, 2014, 57, 1-18.	4.3	28
29	Small oscillation fault detection for a class of nonlinear systems with output measurements using deterministic learning. Systems and Control Letters, 2015, 79, 39-46.	2.3	28
30	Rapid Oscillation Fault Detection and Isolation for Distributed Systems via Deterministic Learning. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1187-1199.	11.3	27
31	Neural learning control of pure-feedback nonlinear systems. Nonlinear Dynamics, 2015, 79, 2589-2608.	5.2	27
32	Small Fault Detection for a Class of Closed-Loop Systems via Deterministic Learning. IEEE Transactions on Cybernetics, 2019, 49, 897-906.	9.5	27
33	Cardiodynamicsgram as a New Diagnostic Tool in Coronary Artery Disease Patients With Nondiagnostic Electrocardiograms. American Journal of Cardiology, 2017, 119, 698-704.	1.6	25
34	Human Gait Recognition Based on Deterministic Learning and Data Stream of Microsoft Kinect. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 3636-3645.	8.3	23
35	Distributed Fast Fault Diagnosis for Multimachine Power Systems via Deterministic Learning. IEEE Transactions on Industrial Electronics, 2020, 67, 4152-4162.	7.9	22
36	A new method for early detection of myocardial ischemia: cardiodynamicsgram (CDG). Science China Information Sciences, 2016, 59, 1-11.	4.3	21

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37	Cooperative deterministic learning control for a group of homogeneous nonlinear uncertain robot manipulators. Science China Information Sciences, 2018, 61, 1.	4.3	20
38	Dynamic Learning From Adaptive Neural Control for Discrete-Time Strict-Feedback Systems. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 3700-3712.	11.3	20
39	Performance of deterministic learning in noisy environments. Neurocomputing, 2012, 78, 72-82.	5.9	19
40	Learning from NN output feedback control of robot manipulators. Neurocomputing, 2014, 125, 172-182.	5.9	18
41	Small Fault Detection of Discrete-Time Nonlinear Uncertain Systems. IEEE Transactions on Cybernetics, 2021, 51, 750-764.	9.5	17
42	Deterministic learning and nonlinear observer design. Asian Journal of Control, 2010, 12, 714-724.	3.0	16
43	Pattern-Based NN Control of a Class of Uncertain Nonlinear Systems. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 1108-1119.	11.3	16
44	Deterministic learning from control of nonlinear systems with disturbances. Progress in Natural Science: Materials International, 2009, 19, 1011-1019.	4.4	15
45	Incipient fault detection of nonlinear dynamical systems via deterministic learning. Neurocomputing, 2018, 313, 125-134.	5.9	13
46	A hierarchical opportunistic screening model for osteoporosis using machine learning applied to clinical data and CT images. BMC Bioinformatics, 2022, 23, 63.	2.6	13
47	Leaderâ€"Follower Formation Learning Control of Discrete-Time Nonlinear Multiagent Systems. IEEE Transactions on Cybernetics, 2023, 53, 1184-1194.	9.5	12
48	Pattern-based autonomous smooth switching control for constrained flexible joint manipulator. Neurocomputing, 2022, 492, 162-173.	5.9	12
49	A Stall Warning Scheme for Aircraft Engines With Inlet Distortion via Deterministic Learning. IEEE Transactions on Control Systems Technology, 2018, 26, 1468-1474.	5.2	11
50	Rapid dynamical pattern recognition for sampling sequences. Science China Information Sciences, 2021, 64, 1.	4.3	11
51	Fractional noise destroys or induces a stochastic bifurcation. Chaos, 2013, 23, 043120.	2.5	10
52	Small fault detection from discrete-time closed-loop control using fault dynamics residuals. Neurocomputing, 2019, 365, 239-248.	5.9	10
53	Composite adaptive NN learning and control for discrete-time nonlinear uncertain systems in normal form. Neurocomputing, 2020, 390, 168-184.	5.9	10
54	Electrocardiogram (ECG) pattern modeling and recognition via deterministic learning. Control Theory and Technology, 2014, 12, 333-344.	1.6	9

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55	A high-order model of rotating stall in axial compressors with inlet distortion. Chinese Journal of Aeronautics, 2017, 30, 898-906.	5.3	9
56	Abrupt stall detection for axial compressors with non-uniform inflow via deterministic learning. Neurocomputing, 2019, 338, 163-171.	5.9	9
57	View-invariant gait recognition via deterministic learning. , 2014, , .		8
58	Composite cooperative synchronization and decentralized learning of multi-robot manipulators with heterogeneous nonlinear uncertain dynamics. Journal of the Franklin Institute, 2019, 356, 5049-5072.	3.4	8
59	Pattern-based NN control for uncertain pure-feedback nonlinear systems. Journal of the Franklin Institute, 2019, 356, 2530-2558.	3.4	8
60	System identification of distributed parameter system with recurrent trajectory via deterministic learning and interpolation. Nonlinear Dynamics, 2019, 95, 73-86.	5.2	8
61	The Cardiodynamicsgram Based Early Detection of Myocardial Ischemia Using the Lempel-Ziv Complexity. IEEE Access, 2020, 8, 207894-207904.	4.2	8
62	Similar Fault Isolation of Discrete-Time Nonlinear Uncertain Systems: An Adaptive Threshold Based Approach. IEEE Access, 2020, 8, 80755-80770.	4.2	8
63	Fault Detection of a Class of Nonlinear Uncertain Parabolic PDE Systems. , 2021, 5, 1459-1464.		8
64	Learning from neural control of general Brunovsky systems. , 2006, , .		7
65	Fault detection for nonlinear discrete-time systems via deterministic learning. Control Theory and Technology, 2016, 14, 159-175.	1.6	6
66	Bifurcation Predication in Axial Compressors with Nonuniform Inflow via Deterministic Learning. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750159.	1.7	6
67	Deterministic learning from neural control for uncertain nonlinear pure€feedback systems by output feedback. International Journal of Robust and Nonlinear Control, 2020, 30, 2701-2718.	3.7	6
68	Modeling of nonlinear dynamical systems based on deterministic learning and structural stability. Science China Information Sciences, 2016, 59, 1.	4.3	5
69	Deterministic learning from neural control for a class of sampled-data nonlinear systems. Information Sciences, 2022, 595, 159-178.	6.9	5
70	Learning from NN output feedback control of nonlinear systems in Brunovsky canonical form. Journal of Control Theory and Applications, 2013, 11, 156-164.	0.8	4
71	Adaptive neural control and learning of affine nonlinear systems. Neural Computing and Applications, 2014, 25, 309-319.	5.6	4
72	Some recent advances in learning and adaptation for uncertain feedback control systems. International Journal of Adaptive Control and Signal Processing, 2014, 28, 201-204.	4.1	4

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73	The predictive value of Cardiodynamicsgram in myocardial perfusion abnormalities. PLoS ONE, 2018, 13, e0208859.	2.5	4
74	Dynamical pattern recognition for sampling sequences based on deterministic learning and structural stability. Neurocomputing, 2021, 458, 376-389.	5.9	4
75	Space Coding Schemes for Multiple Human Localization With Fiber-Optic Sensors. IEEE Sensors Journal, 2018, 18, 4643-4653.	4.7	3
76	A model-based time-to-failure prediction scheme for nonlinear systems via deterministic learning. Journal of the Franklin Institute, 2020, 357, 3771-3791.	3.4	3
77	Intelligent adaptive learning and control for discrete-time nonlinear uncertain systems in multiple environments. Neurocomputing, 2021, 462, 31-45.	5.9	3
78	Neural learning control for discrete-time nonlinear systems in pure-feedback form. Science China Information Sciences, 2022, 65, 1.	4.3	3
79	Model‐based event‐triggered neural learning control for discrete‐time strict‐feedback systems. International Journal of Robust and Nonlinear Control, 0, , .	3.7	3
80	Nonlinear Output Regulation Based on RBF Neural Network Approximation. , 0, , .		2
81	Learning from neural control in motor systems. , 2007, , .		2
82	Learning control of uncertain ocean surface ship dynamics using neural networks. , 2011, , .		2
83	Global Identification of FitzHugh-Nagumo Equation via Deterministic Learning and Interpolation. IEEE Access, 2019, 7, 107334-107345.	4.2	2
84	Fault Detection for a Class of Uncertain Sampled-Data Systems Using Deterministic Learning. IEEE Transactions on Cybernetics, 2021, 51, 5930-5940.	9.5	2
85	Adaptive Neural Control of Non-Affine Pure-Feedback Systems. , 0, , .		1
86	Disturbance Rejection via Adaptive Neural Design for a Class of Non-Minimum Phase Nonlinear Systems. , 2005, , .		1
87	Deterministic Learning and Rapid Dynamical Pattern Recognition of Discrete-Time Systems. , 2008, , .		1
88	Special issue on pattern recognition and information processing using neural networks. Soft Computing, 2010, 14, 101-102.	3.6	1
89	Deterministic learning of completely resonant nonlinear wave systems with Dirichlet boundary conditions. Journal of Control Theory and Applications, 2012, 10, 201-209.	0.8	1
90	Voxel selection and neural decoding of fMRI data based on robust sparse programming with multi-dimensional derivative constraints. Multidimensional Systems and Signal Processing, 2015, 26, 225-241.	2.6	1

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91	Implementing dynamical pattern recognition algorithm on computer cluster. , 2016, , .		1
92	Fault detection for uncertain sampled-data systems via deterministic learning. , 2017, , .		1
93	Design of compressive imaging masks for human activity perception based on binary convolutional neural network. , 2017, , .		1
94	Analyzing of Hopf bifurcation based on deterministic learning. , 2017, , .		1
95	Spiral Tip Identification via Deterministic Learning. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950040.	1.7	1
96	Recent advances on dynamic learning from adaptive NN control. Control Theory and Technology, 2020, 18, 107-109.	1.6	1
97	Spiral Tip Recognition via Deterministic Learning. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050093.	1.7	1
98	Fault Detection of A Class of Nonlinear Uncertain Parabolic PDE Systems. , 2021, , .		1
99	Semiglobally ISpS Disturbance Attenuation via Adaptive Neural Design for a Class of Nonlinear Systems. , 2006, , .		0
100	Robust Switching Design for Linear Hybrid Systems. , 2006, , .		0
101	Dissipativity-based switching adaptive control. , 2009, , .		0
102	Identification of a class of parabolic distributed parameter systems via deterministic learning. , 2009, , .		0
103	Call for papers: Special Issue on Learning Issues in Feedback Control of Uncertain Dynamical Systems (SILIFC). International Journal of Adaptive Control and Signal Processing, 2011, 25, 481-482.	4.1	0
104	Deterministic learning of a completely resonant nonlinear wave system with dirichlet boundary conditions. , 2011, , .		0
105	Labview-based human gait recognition system design via deterministic learning. , 2012, , .		0
106	Fault detection for a class of strict-feedback systems via deterministic learning. , 2012, , .		0
107	Identification and learning control of strict-feedback systems using adaptive neural dynamic surface control. , 2013, , .		0
108	Control of an underactuated rigid spacecraft via deterministic learning. , 2014, , .		0

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109	Deterministic learning and neural control of a class of nonlinear systems toward improved performance. Neural Computing and Applications, 2014, 24, 637-648.	5.6	0
110	Implementation of a flexible and extensible clinical data management system for cardiovascular disease. , 2016, , .		0
111	Design and implementation of remote myocardial ischemia monitoring software system. , 2017, , .		0
112	Rapid detection of rotating stall in axial flow compressors on computer cluster. , 2017, , .		0
113	A high-order model for spike-type instability in axial compression systems. , 2017, , .		0
114	Relationship between levels of persistent excitation, architectures of neural networks and deterministic learning performance. , 2017, , .		0
115	Incipient Fault Detection of Nonlinear Dynamical Systems with Disturbance via Deterministic Learning. , 2018, , .		0
116	A New Measure of Dynamic Similarity for Nonlinear Systems based on Gap Metric and Deterministic Learning Theory. , 2018, , .		0
117	Classification of pathological and non-pathological Cardiodynamicsgram (CDG) using nonlinear dynamics indexes. , 2018, , .		0
118	Learning from Adaptive NN Dynamic Surface Control for Uncertain Pure-Feedback Systems. , 2018, , .		0
119	A Frequency-Speed Subsystem of the Barkley Model for Spiral Tip Identification via Deterministic Learning. , 2019, , .		0
120	Sensor Fault Diagnosis via Deterministic Learning. , 2019, , .		0
121	EA solutions and EA solvability to general interval linear systems. Linear and Multilinear Algebra, 2021, 69, 2865-2881.	1.0	0
122	Identification of the Gray–Scott Model via Deterministic Learning. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150051.	1.7	0
123	Identification of distributed parameter system with recurrent trajectory via deterministic learning. , 2017, , .		0
124	Analysis of the Stall Inception on Axial Compressors Using Permutation Entropy. , 2020, , .		0
125	Sensor Fault Identification for a Class of Nonlinear Discrete-time System. , 2021, , .		0