

Weicun Zhang

List of Publications by Year in descending order

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62
papers

566
citations

933447

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h-index

677142

22
g-index

67
all docs

67
docs citations

67
times ranked

361
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Transformer for Remote Sensing Image Segmentation. Remote Sensing, 2021, 13, 3585.	4.0	91
2	HRCNet: High-Resolution Context Extraction Network for Semantic Segmentation of Remote Sensing Images. Remote Sensing, 2021, 13, 71.	4.0	80
3	Sliding mode control technique for multi-switching synchronization of chaotic systems. , 2017, , .		54
4	Disturbance Observer-Based Fault-Tolerant Control for Robotic Systems With Guaranteed Prescribed Performance. IEEE Transactions on Cybernetics, 2022, 52, 772-783.	9.5	53
5	On the stability and convergence of self-tuning controlâ€“virtual equivalent system approach. International Journal of Control, 2010, 83, 879-896.	1.9	33
6	U-neural network-enhanced control of nonlinear dynamic systems. Neurocomputing, 2019, 352, 12-21.	5.9	29
7	Stable weighted multiple model adaptive control: discreteâ€“time stochastic plant. International Journal of Adaptive Control and Signal Processing, 2013, 27, 562-581.	4.1	24
8	Boosted Transformer for Image Captioning. Applied Sciences (Switzerland), 2019, 9, 3260.	2.5	23
9	Distributed adaptive flocking of robotic fish system with a leader of bounded unknown input. International Journal of Control, Automation and Systems, 2014, 12, 1049-1058.	2.7	22
10	Control of Complex Nonlinear Dynamic Rational Systems. Complexity, 2018, 2018, 1-12.	1.6	20
11	Further results on stable weighted multiple model adaptive control: Discreteâ€“time stochastic plant. International Journal of Adaptive Control and Signal Processing, 2015, 29, 1497-1514.	4.1	14
12	A Unified Analysis of Switching Multiple Model Adaptive Control - Virtual Equivalent System Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 14403-14408.	0.4	10
13	Robust Stabilization and Synchronization of a Novel Chaotic System with Input Saturation Constraints. Entropy, 2021, 23, 1110.	2.2	10
14	Algorithms for U-Model-Based Dynamic Inversion (UM-Dynamic Inversion) for Continuous Time Control Systems. Complexity, 2020, 2020, 1-14.	1.6	9
15	U-Model and U-Control Methodology for Nonlinear Dynamic Systems. Complexity, 2020, 2020, 1-13.	1.6	8
16	Towards a unified stability analysis of continuous-time T-S model-based fuzzy control systems. International Journal of Modelling, Identification and Control, 2019, 31, 113.	0.2	7
17	Model maturity towards modeling and simulation: Concepts, index system framework and evaluation method. International Journal of Modeling, Simulation, and Scientific Computing, 2020, 11, 2040001.	1.4	6
18	Weighted Multiple-Model Neural Network Adaptive Control for Robotic Manipulators with Jumping Parameters. Complexity, 2020, 2020, 1-12.	1.6	6

#	ARTICLE	IF	CITATIONS
19	Simulation verification of virtual equivalent system theory. , 2010, , .		5
20	Stable Weighted Multiple Model Adaptive Control of Continuous-Time Plant With Large Parameter Uncertainties. IEEE Access, 2019, 7, 144125-144133.	4.2	5
21	A distributed cooperative approach for unmanned aerial vehicle flocking. Chaos, 2019, 29, 043118.	2.5	5
22	U-model based Control Design Framework for Continuous-Time Systems. , 2019, , .		5
23	Weighted Multiple Neural Network Boundary Control for a Flexible Manipulator With Uncertain Parameters. IEEE Access, 2019, 7, 57633-57641.	4.2	4
24	Survey and tutorial on multiple model methodologies in modelling, identification and control. International Journal of Modelling, Identification and Control, 2019, 32, 1.	0.2	4
25	Stable Weighted Multiple Model Adaptive Control of Discrete-Time Stochastic Plant. , 2021, , 65-87.		4
26	Active disturbance rejection control for nanopositioning: A robust U-model approach. ISA Transactions, 2021, , .	5.7	4
27	Stable Weighted Multiple Model Adaptive Control With Improved Convergence Rate. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 570-575.	0.4	3
28	The implementation of distributed high-speed high-accuracy data acquisition system based on EtherCAT. , 2013, , .		3
29	Erratum to "Algorithms for U-Model-Based Dynamic Inversion (UM-Dynamic Inversion) for Continuous Time Control Systems" Complexity, 2020, 2020, 1-1.	1.6	3
30	Optimization-based transient control of turbofan engines: a sequential quadratic programming approach. International Journal of Turbo and Jet Engines, 2024, 40, s119-s128.	0.7	3
31	Robust multiple model adaptive control of uncertain stochastic plant with improved weighting algorithm. , 2014, , .		2
32	External Excitation of Axial Magnetic Field for Intermediate-Frequency Vacuum Arc Research. IEEE Access, 2019, 7, 161088-161093.	4.2	2
33	Virtual equivalent system theory for adaptive control and simulation verification. Scientia Sinica Informationis, 2018, 48, 947-962.	0.4	2
34	Virtual equivalent system and stability criteria for discrete-time T-S model based fuzzy control systems. , 2012, , .		1
35	Smooth Adaptive Internal Model Control Based on $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{U} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Model for Nonlinear Systems with Dynamic Uncertainties. Mathematical Problems in Engineering. 2016. 2016. 1-11.	1.1	1
36	Fault-Tolerant Control against Performance Degradation of Actuators for a Robotic System with Guaranteed Prescribed Performance. , 2018, , .		1

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37	Multiple-Model Adaptive Estimation with A New Weighting Algorithm. Complexity, 2018, 2018, 1-11.	1.6	1
38	RBF Networks-Based Weighted Multi-Model Adaptive Control for a Category of Nonlinear Systems With Jumping Parameters. IEEE Access, 2019, 7, 84929-84937.	4.2	1
39	U-model enhanced MIMO decoupling control of thickness and plate type of cold rolling temper mill. International Journal of Modelling, Identification and Control, 2019, 33, 189.	0.2	1
40	Weighted multiple model adaptive boundary control for a flexible manipulator. Science Progress, 2020, 103, 003685041988646.	1.9	1
41	U-model enhanced control of Volterra series systems. , 2019, , .		1
42	Further Results on Stable Weighted Multiple Model Adaptive Control of Discrete-Time Stochastic Plant. , 2021, , 89-110.		1
43	Special Issue "Complex Dynamic System Modelling, Identification and Control" Entropy, 2022, 24, 380.	2.2	1
44	The convergence of parameter estimates and the real structure information of plant are both unnecessary for a general self-tuning control system - Arbitrary deterministic plant. , 2012, , .		0
45	Stability analysis of weighted multiple model adaptive control of a linear time-invariant discrete-time system. , 2012, , .		0
46	Verification and implementation of the non-inverting buck-boost converter in energy-harvesting battery charger. , 2012, , .		0
47	Stability of T-S model based fuzzy control systems — Virtual equivalent system approach. , 2013, , .		0
48	The design and implementation of a two-dimension motion platform for track reappearance. , 2013, , .		0
49	New Progress on Research of Weighted Multiple Model Adaptive Control. Lecture Notes in Electrical Engineering, 2018, , 167-176.	0.4	0
50	Research of Nonlinear Adaptive Control Based on BP Neural Network. , 2018, , .		0
51	Model Validation of Control Systems With an Application in Abnormal Driving State Detection. , 2019, , 419-429.		0
52	Maneuvering target tracking with improved interactive multiple model algorithm. Proceedings of International Conference on Artificial Life and Robotics, 2021, 26, 373-376.	0.1	0
53	Undershoot Reduction in Discrete-Time ADRC of NMP Plant by Parameters Optimization. Proceedings of International Conference on Artificial Life and Robotics, 2016, 21, 336-339.	0.1	0
54	Adaptive Control of Discrete-Time Systems Using Multiple Fixed and One Adaptive Identification Models. Proceedings of International Conference on Artificial Life and Robotics, 2016, 21, 316-319.	0.1	0

#	ARTICLE	IF	CITATIONS
55	Weighted Multiple Model Adaptive Control for a Category of Systems with Colored Noise. Proceedings of International Conference on Artificial Life and Robotics, 2017, 22, 396-399.	0.1	0
56	Multiple-Model Adaptive Estimation With A New Weighting Algorithm. Proceedings of International Conference on Artificial Life and Robotics, 2018, 23, 708-711.	0.1	0
57	A New Adaptive Control System Design Method Based on Neural Network Prediction. Proceedings of International Conference on Artificial Life and Robotics, 2019, 24, 407-410.	0.1	0
58	Multiple Model Adaptive Control of Flexible Arm. Proceedings of International Conference on Artificial Life and Robotics, 2019, 24, 391-394.	0.1	0
59	Stability and Convergence Analysis of Self-Tuning Control Systems. , 2021, , 5-40.		0
60	Stable Weighted Multiple Model Adaptive Control of Continuous-Time Plant. , 2021, , 111-127.		0
61	Multiple model adaptive control based on switching/weighting intelligent fusion algorithm. Proceedings of International Conference on Artificial Life and Robotics, 2020, 25, 694-696.	0.1	0
62	Geometry Structure Oriented Nonlinear Internal Model Based Manifold Consensus. Proceedings of International Conference on Artificial Life and Robotics, 2022, 27, 412-415.	0.1	0