

Weicun Zhang

List of Publications by Year in descending order

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62
papers

566
citations

933447

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67
all docs

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67
times ranked

361
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization-based transient control of turbofan engines: a sequential quadratic programming approach. <i>International Journal of Turbo and Jet Engines</i> , 2024, 40, s119-s128.	0.7	3
2	Disturbance Observer-Based Fault-Tolerant Control for Robotic Systems With Guaranteed Prescribed Performance. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 772-783.	9.5	53
3	Geometry Structure Oriented Nonlinear Internal Model Based Manifold Consensus. <i>Proceedings of International Conference on Artificial Life and Robotics</i> , 2022, 27, 412-415.	0.1	0
4	Special Issue "Complex Dynamic System Modelling, Identification and Control" <i>Entropy</i> , 2022, 24, 380.	2.2	1
5	Maneuvering target tracking with improved interactive multiple model algorithm. <i>Proceedings of International Conference on Artificial Life and Robotics</i> , 2021, 26, 373-376.	0.1	0
6	Robust Stabilization and Synchronization of a Novel Chaotic System with Input Saturation Constraints. <i>Entropy</i> , 2021, 23, 1110.	2.2	10
7	Efficient Transformer for Remote Sensing Image Segmentation. <i>Remote Sensing</i> , 2021, 13, 3585.	4.0	91
8	Stable Weighted Multiple Model Adaptive Control of Discrete-Time Stochastic Plant. , 2021, , 65-87.		4
9	HRCNet: High-Resolution Context Extraction Network for Semantic Segmentation of Remote Sensing Images. <i>Remote Sensing</i> , 2021, 13, 71.	4.0	80
10	Stability and Convergence Analysis of Self-Tuning Control Systems. , 2021, , 5-40.		0
11	Further Results on Stable Weighted Multiple Model Adaptive Control of Discrete-Time Stochastic Plant. , 2021, , 89-110.		1
12	Stable Weighted Multiple Model Adaptive Control of Continuous-Time Plant. , 2021, , 111-127.		0
13	Active disturbance rejection control for nanopositioning: A robust U-model approach. <i>ISA Transactions</i> , 2021, , .	5.7	4
14	Weighted multiple model adaptive boundary control for a flexible manipulator. <i>Science Progress</i> , 2020, 103, 003685041988646.	1.9	1
15	Algorithms for U-Model-Based Dynamic Inversion (UM-Dynamic Inversion) for Continuous Time Control Systems. <i>Complexity</i> , 2020, 2020, 1-14.	1.6	9
16	U-Model and U-Control Methodology for Nonlinear Dynamic Systems. <i>Complexity</i> , 2020, 2020, 1-13.	1.6	8
17	Erratum to "Algorithms for U-Model-Based Dynamic Inversion (UM-Dynamic Inversion) for Continuous Time Control Systems" <i>Complexity</i> , 2020, 2020, 1-1.	1.6	3
18	Model maturity towards modeling and simulation: Concepts, index system framework and evaluation method. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2020, 11, 2040001.	1.4	6

#	ARTICLE	IF	CITATIONS
19	Weighted Multiple-Model Neural Network Adaptive Control for Robotic Manipulators with Jumping Parameters. Complexity, 2020, 2020, 1-12.	1.6	6
20	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
21	Weighted Multiple Neural Network Boundary Control for a Flexible Manipulator With Uncertain Parameters. IEEE Access, 2019, 7, 57633-57641.	4.2	4
22	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
23	Stable Weighted Multiple Model Adaptive Control of Continuous-Time Plant With Large Parameter Uncertainties. IEEE Access, 2019, 7, 144125-144133.	4.2	5
24	Boosted Transformer for Image Captioning. Applied Sciences (Switzerland), 2019, 9, 3260.	2.5	23
25	A distributed cooperative approach for unmanned aerial vehicle flocking. Chaos, 2019, 29, 043118.	2.5	5
26	Model Validation of Control Systems With an Application in Abnormal Driving State Detection. , 2019, , 419-429.		0
27	U-neural network-enhanced control of nonlinear dynamic systems. Neurocomputing, 2019, 352, 12-21.	5.9	29
28	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
29	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
30	External Excitation of Axial Magnetic Field for Intermediate-Frequency Vacuum Arc Research. IEEE Access, 2019, 7, 161088-161093.	4.2	2
31	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
32	U-model based Control Design Framework for Continuous-Time Systems. , 2019, , .		5
33	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
34	Multiple Model Adaptive Control of Flexible Arm. Proceedings of International Conference on Artificial Life and Robotics, 2019, 24, 391-394.	0.1	0
35	U-model enhanced control of Volterra series systems. , 2019, , .		1
36	New Progress on Research of Weighted Multiple Model Adaptive Control. Lecture Notes in Electrical Engineering, 2018, , 167-176.	0.4	0

#	ARTICLE	IF	CITATIONS
37	Fault-Tolerant Control against Performance Degradation of Actuators for a Robotic System with Guaranteed Prescribed Performance. , 2018, , .		1
38	Research of Nonlinear Adaptive Control Based on BP Neural Network. , 2018, , .		0
39	Multiple-Model Adaptive Estimation with A New Weighting Algorithm. Complexity, 2018, 2018, 1-11.	1.6	1
40	Control of Complex Nonlinear Dynamic Rational Systems. Complexity, 2018, 2018, 1-12.	1.6	20
41	Virtual equivalent system theory for adaptive control and simulation verification. Scientia Sinica Informationis, 2018, 48, 947-962.	0.4	2
42	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
43	Sliding mode control technique for multi-switching synchronization of chaotic systems. , 2017, , .		54
44	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
45	Smooth Adaptive Internal Model Control Based on $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \cup \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Model for Nonlinear Systems with Dynamic Uncertainties. Mathematical Problems in Engineering, 2016, 2016, 1-11.	1.1	1
46	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
47	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
48	Further results on stable weighted multiple model adaptive control: Discrete-time stochastic plant. International Journal of Adaptive Control and Signal Processing, 2015, 29, 1497-1514.	4.1	14
49	Robust multiple model adaptive control of uncertain stochastic plant with improved weighting algorithm. , 2014, , .		2
50	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
51	The implementation of distributed high-speed high-accuracy data acquisition system based on EtherCAT. , 2013, , .		3
52	Stability of T-S model based fuzzy control systems — Virtual equivalent system approach. , 2013, , .		0
53	Stable weighted multiple model adaptive control: discrete-time stochastic plant. International Journal of Adaptive Control and Signal Processing, 2013, 27, 562-581.	4.1	24
54	The design and implementation of a two-dimension motion platform for track reappearance. , 2013, , .		0

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55	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
56	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
57	Stability analysis of weighted multiple model adaptive control of a linear time-invariant discrete-time system. , 2012, , .		0
58	Virtual equivalent system and stability criteria for discrete-time T-S model based fuzzy control systems. , 2012, , .		1
59	Verification and implementation of the non-inverting buck-boost converter in energy-harvesting battery charger. , 2012, , .		0
60	Simulation verification of virtual equivalent system theory. , 2010, , .		5
61	On the stability and convergence of self-tuning controlâ€“virtual equivalent system approach. International Journal of Control, 2010, 83, 879-896.	1.9	33
62	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