

Hai Wang

List of Publications by Year in descending order

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119
papers

2,933
citations

159358

30
h-index

189595

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121
all docs

121
docs citations

121
times ranked

1598
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive Control of Uncertain Nonlinear Systems via Event-Triggered Communication and NN Learning. IEEE Transactions on Cybernetics, 2023, 53, 2391-2401.	6.2	4
2	Robust Adaptive Learning Control of Space Robot for Target Capturing Using Neural Network. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 7567-7577.	7.2	7
3	Co-Design of Adaptive Event Generator and Asynchronous Fault Detection Filter for Markov Jump Systems via Genetic Algorithm. IEEE Transactions on Cybernetics, 2023, 53, 5059-5068.	6.2	9
4	Real-Time Average Junction Temperature Estimation for Multichip IGBT Modules With Low Computational Cost. IEEE Transactions on Industrial Electronics, 2023, 70, 4175-4185.	5.2	9
5	Asynchronous Fault Detection Observer for 2-D Markov Jump Systems. IEEE Transactions on Cybernetics, 2022, 52, 13623-13634.	6.2	103
6	Asynchronous Fault Detection for Interval Type-2 Fuzzy Nonhomogeneous Higher Level Markov Jump Systems With Uncertain Transition Probabilities. IEEE Transactions on Fuzzy Systems, 2022, 30, 2487-2499.	6.5	121
7	Fuzzy Disturbance Observer Design for a Class of Nonlinear SISO Systems. International Journal of Fuzzy Systems, 2022, 24, 147-158.	2.3	2
8	Adaptive full order sliding mode control for electronic throttle valve system with fixed time convergence using extreme learning machine. Neural Computing and Applications, 2022, 34, 5241-5253.	3.2	11
9	Learning-Based Distributed Resilient Fault-Tolerant Control Method for Heterogeneous MASs Under Unknown Leader Dynamic. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5504-5513.	7.2	66
10	Analog Control Circuit Designs for a Class of Continuous-Time Adaptive Fault-Tolerant Control Systems. IEEE Transactions on Cybernetics, 2022, 52, 4209-4220.	6.2	39
11	Neural network-based fixed-time sliding mode control for a class of nonlinear Euler-Lagrange systems. Applied Mathematics and Computation, 2022, 415, 126718.	1.4	10
12	Prognosis of Electric Scooter With Intermittent Faults: Dual Degradation Processes Approach. IEEE Transactions on Vehicular Technology, 2022, 71, 1411-1425.	3.9	14
13	Special issue on computational intelligence-based modeling, control and estimation in modern mechatronic systems. Neural Computing and Applications, 2022, 34, 5011-5013.	3.2	0
14	Extreme-learning-machine-based robust integral terminal sliding mode control of bicycle robot. Control Engineering Practice, 2022, 121, 105064.	3.2	24
15	Fault-tolerant tracking control based on reinforcement learning with application to a steer-by-wire system. Journal of the Franklin Institute, 2022, 359, 1152-1171.	1.9	5
16	Fuzzy-Based Adaptive Optimization of Unknown Discrete-Time Nonlinear Markov Jump Systems With Off-Policy Reinforcement Learning. IEEE Transactions on Fuzzy Systems, 2022, 30, 5276-5290.	6.5	10
17	Uninterrupted path planning system for Multi-USV sampling mission in a cluttered ocean environment. Ocean Engineering, 2022, 254, 111328.	1.9	35
18	Dissipativity-based finite-time asynchronous output feedback control for wind turbine system via a hidden Markov model. International Journal of Systems Science, 2022, 53, 3177-3189.	3.7	61

#	ARTICLE	IF	CITATIONS
19	Parameter Estimation for Robotic Manipulator Systems. <i>Machines</i> , 2022, 10, 392.	1.2	0
20	Reinforcement learning-based adaptive optimal tracking algorithm for Markov jump systems with partial unknown dynamics. <i>Optimal Control Applications and Methods</i> , 2022, 43, 1435-1449.	1.3	3
21	Terminal time regulator-based exact-time sliding mode control for uncertain nonlinear systems. <i>International Journal of Robust and Nonlinear Control</i> , 2022, 32, 7536-7553.	2.1	5
22	Finite-time tracking control for nonholonomic wheeled mobile robot using adaptive fast nonsingular terminal sliding mode. <i>Nonlinear Dynamics</i> , 2022, 110, 1437-1453.	2.7	5
23	Discrete Component Prognosis for Hybrid Systems Under Intermittent Faults. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021, 18, 1766-1777.	3.4	23
24	Recursive sliding mode control with adaptive disturbance observer for a linear motor positioner. <i>Mechanical Systems and Signal Processing</i> , 2021, 146, 107014.	4.4	105
25	Adaptive Tracking Control of an Electronic Throttle Valve Based on Recursive Terminal Sliding Mode. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 251-262.	3.9	54
26	Global robust output regulation of a class of MIMO nonlinear systems by nonlinear internal model control. <i>International Journal of Robust and Nonlinear Control</i> , 2021, 31, 4037-4051.	2.1	5
27	Control of an IPMC Soft Actuator Using Adaptive Full-Order Recursive Terminal Sliding Mode. <i>Actuators</i> , 2021, 10, 33.	1.2	4
28	Robust control of reaction wheel bicycle robot via adaptive integral terminal sliding mode. <i>Nonlinear Dynamics</i> , 2021, 104, 2291-2302.	2.7	28
29	Discrete-time integral terminal sliding mode-based speed tracking control for a robotic fish. <i>Nonlinear Dynamics</i> , 2021, 105, 359-370.	2.7	6
30	A Thermal Estimation Method for IGBT Module Adaptable to Operating Conditions. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 6147-6152.	5.4	14
31	Nonlinear speed tracking control of PMSM servo system: A global robust output regulation approach. <i>Control Engineering Practice</i> , 2021, 112, 104832.	3.2	16
32	Leakage-type adaptive state and disturbance observers for uncertain nonlinear systems. <i>Nonlinear Dynamics</i> , 2021, 105, 2299-2311.	2.7	10
33	Computational Intelligence-Based Prognosis for Hybrid Mechatronic System Using Improved Wiener Process. <i>Actuators</i> , 2021, 10, 213.	1.2	4
34	Discrete-time modified repetitive sliding mode control for uncertain linear systems. <i>International Journal of Adaptive Control and Signal Processing</i> , 2021, 35, 2245-2258.	2.3	10
35	Robust adaptive estimation and tracking control for perturbed cyber-physical systems against denial of service. <i>Applied Mathematics and Computation</i> , 2021, 404, 126255.	1.4	8
36	Tracking Control of a Linear Motor Positioner Based on Barrier Function Adaptive Sliding Mode. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 7479-7488.	7.2	73

#	ARTICLE	IF	CITATIONS
37	Finite-time dissipative control for time-delay Markov jump systems with conic-type nonlinearities under guaranteed cost controller and quantiser. IET Control Theory and Applications, 2021, 15, 489-498.	1.2	11
38	Adaptive Cuckoo Search-Extreme Learning Machine Based Prognosis for Electric Scooter System Under Intermittent Fault. Actuators, 2021, 10, 283.	1.2	4
39	Rapid Detection of Small Faults and Oscillations in Synchronous Generator Systems Using GMDH Neural Networks and High-Gain Observers. Electronics (Switzerland), 2021, 10, 2637.	1.8	2
40	Straw/Spring Teeth Interaction Analysis of Baler Picker in Smart Agriculture via an ADAMS-DEM Coupled Simulation Method. Machines, 2021, 9, 296.	1.2	6
41	Real-Time Control Systems with Applications in Mechatronics. , 2021, , 1-36.		0
42	A New Extended Sliding Mode Observer for Second-order Linear Systems. , 2021, , .		2
43	Parameter Estimation of Robotic Manipulator in Frequency Domain. , 2021, , .		0
44	Fast nonsingular terminal sliding mode control for permanent-magnet linear motor via ELM. Neural Computing and Applications, 2020, 32, 14447-14457.	3.2	37
45	Robust tracking control for vehicle electronic throttle using adaptive dynamic sliding mode and extended state observer. Mechanical Systems and Signal Processing, 2020, 135, 106375.	4.4	48
46	A Robust Adaptive Chattering-Free Sliding Mode Control Strategy for Automotive Electronic Throttle System via Genetic Algorithm. IEEE Access, 2020, 8, 68-80.	2.6	30
47	Extreme-learning-machine-based FNTSM control strategy for electronic throttle. Neural Computing and Applications, 2020, 32, 14507-14518.	3.2	31
48	Internal Model Control of PMSM Position Servo System: Theory and Experimental Results. IEEE Transactions on Industrial Informatics, 2020, 16, 2202-2211.	7.2	57
49	Finite-Time Control of a Linear Motor Positioner Using Adaptive Recursive Terminal Sliding Mode. IEEE Transactions on Industrial Electronics, 2020, 67, 6659-6668.	5.2	134
50	Energy management strategy for electric vehicles based on deep Q-learning using Bayesian optimization. Neural Computing and Applications, 2020, 32, 14431-14445.	3.2	13
51	Position control of spherical inverted pendulum via improved discrete-time neural network approach. Nonlinear Dynamics, 2020, 99, 2867-2875.	2.7	8
52	Robust adaptive neural network-based compensation control of a class of quadrotor aircrafts. Journal of the Franklin Institute, 2020, 357, 12241-12263.	1.9	36
53	Driver Fatigue Detection via Differential Evolution Extreme Learning Machine Technique. Electronics (Switzerland), 2020, 9, 1850.	1.8	14
54	An Online Reinforcement Learning Approach for Dynamic Pricing of Electric Vehicle Charging Stations. IEEE Access, 2020, 8, 130305-130313.	2.6	35

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55	Step-By-Step Coordination Control of Multiple Robot Fish Based on Discrete Integral Terminal Sliding Mode. , 2020, , .		0
56	Discrete Time Fast Terminal Sliding-Mode for Steer-by-Wire Systems with Nonlinear Disturbance Observer. , 2020, , .		0
57	Practical model-free robust estimation and control design for an underwater soft IPMC actuator. IET Control Theory and Applications, 2020, 14, 1508-1515.	1.2	5
58	Compound Fault Diagnosis and Sequential Prognosis for Electric Scooter with Uncertainties. Actuators, 2020, 9, 128.	1.2	7
59	Adaptive Sliding Mode-Based Lateral Stability Control of Steer-by-Wire Vehicles With Experimental Validations. IEEE Transactions on Vehicular Technology, 2020, 69, 9589-9600.	3.9	78
60	Robust adaptive integral terminal sliding mode control for steer-by-wire systems based on extreme learning machine. Computers and Electrical Engineering, 2020, 86, 106756.	3.0	48
61	Precise Discrete-Time Steering Control for Robotic Fish Based on Data-Assisted Technique and Super-Twisting-Like Algorithm. IEEE Transactions on Industrial Electronics, 2020, 67, 10587-10599.	5.2	23
62	Robust hierarchical sliding mode control of a two-wheeled self-balancing vehicle using perturbation estimation. Mechanical Systems and Signal Processing, 2020, 139, 106584.	4.4	43
63	Active Front Steering-Based Electronic Stability Control for Steer-by-Wire Vehicles via Terminal Sliding Mode and Extreme Learning Machine. IEEE Transactions on Vehicular Technology, 2020, 69, 14713-14726.	3.9	54
64	An efficient adjoint computational method based on lifted IRK integrator and exact penalty function for optimal control problems involving continuous inequality constraints. Discrete and Continuous Dynamical Systems - Series S, 2020, 13, 1845-1865.	0.6	2
65	A Novel Torque Distribution Strategy Based on Deep Recurrent Neural Network for Parallel Hybrid Electric Vehicle. IEEE Access, 2019, 7, 65174-65185.	2.6	17
66	Adaptive fault-tolerant control of mobile robots with actuator faults and unknown parameters. IET Control Theory and Applications, 2019, 13, 1665-1672.	1.2	33
67	Fault Diagnosis and RUL Prediction of Nonlinear Mechatronic System via Adaptive Genetic Algorithm-Particle Filter. IEEE Access, 2019, 7, 11140-11151.	2.6	25
68	Robust Discrete Time Integral Terminal Sliding Mode Control for Steering-By-Wire Systems based on Input-Output Model. , 2019, , .		1
69	Fast Nonsingular Terminal Sliding Control for Permanent Magnet Linear Motor via Extreme Learning Machine Estimator. , 2019, , .		0
70	Discrete time fast sliding-mode control for permanent magnet linear motor with nonlinear extended state observer. , 2019, , .		1
71	Adaptive fuzzy sliding mode control design for vehicle steer-by-wire systems. Journal of Intelligent and Fuzzy Systems, 2019, 37, 6601-6612.	0.8	4
72	Steering Feel Design for Steer-by-Wire System on Electric Vehicles. , 2019, , .		10

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73	Robust fast nonsingular terminal sliding mode control strategy for electronic throttle based on extreme learning machine. , 2019, , .		1
74	Extreme-learning-machine-based robust AITSM control for steer-by-wire systems. , 2019, , .		1
75	Practical Model-Free Robust Control Design for an Underwater IPMC Actuator. , 2019, , .		1
76	Krill Herd Optimization based Fault Diagnosis for Hybrid Mechatronic System. , 2019, , .		0
77	Robotic Fish Path Planning in Complex Environment. , 2019, , .		1
78	Event-Based Sequential Prognosis for Uncertain Hybrid Systems With Intermittent Faults. IEEE Transactions on Industrial Informatics, 2019, 15, 4455-4468.	7.2	13
79	Sliding mode-based active disturbance rejection control for vehicle steer-by-wire systems. IET Cyber-Physical Systems: Theory and Applications, 2018, 3, 1-10.	1.9	21
80	Continuous Fast Nonsingular Terminal Sliding Mode Control of Automotive Electronic Throttle Systems Using Finite-Time Exact Observer. IEEE Transactions on Industrial Electronics, 2018, 65, 7160-7172.	5.2	124
81	A sequential computational approach to optimal control problems for differential-algebraic systems based on efficient implicit Runge-Kutta integration. Applied Mathematical Modelling, 2018, 58, 313-330.	2.2	11
82	A Novel Data-Assisted Model and Discrete-Time Sliding Mode Steering Controller of Robotic Fish. , 2018, , .		3
83	A Novel Integral Terminal Sliding Mode Control of Yaw Stability for Steer-by-Wire Vehicles. , 2018, , .		4
84	A Novel Yawing Suppression Model and Control of Robotic Fish via Stable Point. , 2018, , .		0
85	Adaptive Integral Terminal Sliding Mode Control for Automobile Electronic Throttle via an Uncertainty Observer and Experimental Validation. IEEE Transactions on Vehicular Technology, 2018, 67, 8129-8143.	3.9	69
86	Fault Diagnosis for Electromechanical System via Extended Analytical Redundancy Relations. IEEE Transactions on Industrial Informatics, 2018, 14, 5233-5244.	7.2	27
87	Robust chattering-free sliding mode control of electronic throttle systems in drive-by-wire vehicles. , 2017, , .		4
88	A novel hierarchical sliding mode control strategy for a two-wheeled self-balancing vehicle. , 2017, , .		2
89	Scheduled Health Monitoring of Hybrid Systems With Multiple Distinct Faults. IEEE Transactions on Industrial Electronics, 2017, 64, 1517-1528.	5.2	22
90	Adaptive fast nonsingular terminal sliding mode control for a vehicle steer-by-wire system. IET Control Theory and Applications, 2017, 11, 1245-1254.	1.2	54

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91	Robust hierarchical sliding mode control for steer-by-wire equipped vehicle yaw stability control. , 2017, , .		3
92	Robust control for vehicle lane-keeping with sliding mode. , 2017, , .		5
93	Robust terminal sliding mode control for automotive electronic throttle with lumped uncertainty estimation. International Journal of Vehicle Design, 2017, 74, 19.	0.1	3
94	Sliding mode adaptive control for DC motors using function approximation form. International Journal of Modelling, Identification and Control, 2016, 26, 238.	0.2	2
95	Sliding mode learning compensator-based robust control of automotive steer-by-wire systems. International Journal of Modelling, Identification and Control, 2016, 26, 253.	0.2	3
96	Sliding mode learning control of nonâ€minimum phase nonlinear systems. International Journal of Robust and Nonlinear Control, 2016, 26, 2281-2298.	2.1	8
97	Adaptive neural network sliding mode control for steer-by-wire-based vehicle stability control. Journal of Intelligent and Fuzzy Systems, 2016, 31, 885-902.	0.8	12
98	Discrete-time sliding mode learning based congestion control for connection-oriented communication networks. , 2016, , .		2
99	A novel sliding mode control for lane keeping in road vehicles. , 2016, , .		9
100	Design and Implementation of Adaptive Terminal Sliding-Mode Control on a Steer-by-Wire Equipped Road Vehicle. IEEE Transactions on Industrial Electronics, 2016, 63, 5774-5785.	5.2	133
101	Robust adaptive position control of automotive electronic throttle valve using PID-type sliding mode technique. Nonlinear Dynamics, 2016, 85, 1331-1344.	2.7	39
102	Robust adaptive position control of automotive electronic throttle valve using PID-type sliding mode technique. , 2016, , .		0
103	Sliding mode learning based congestion control for DiffServ networks. IET Control Theory and Applications, 2016, 10, 1281-1287.	1.2	7
104	Intelligent multiple-fault diagnosis of a mobile robot system in the presence of hide effect. , 2016, , .		1
105	Engine clutch engagement control for a parallel hybrid electric vehicle using sliding mode control scheme. Australian Journal of Electrical and Electronics Engineering, 2016, 13, 244-257.	0.7	5
106	A recurrent neural network for modeling crack growth of aluminium alloy. Neural Computing and Applications, 2016, 27, 197-203.	3.2	11
107	Intelligent fault diagnosis of induction motor with stator winding fault. , 2015, , .		0
108	RBF-neural-network-based sliding mode controller of automotive Steer-by-Wire systems. , 2015, , .		2

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109	Neural-network-based robust control for steer-by-wire systems with uncertain dynamics. Neural Computing and Applications, 2015, 26, 1575-1586.	3.2	30
110	Robust Control of a Vehicle Steer-by-Wire System Using Adaptive Sliding Mode. IEEE Transactions on Industrial Electronics, 2015, , 1-1.	5.2	52
111	Robust Motion Control of a Linear Motor Positioner Using Fast Nonsingular Terminal Sliding Mode. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1743-1752.	3.7	170
112	A composite control scheme for automotive Steer-By-Wire system. , 2014, , .		1
113	Sliding Mode Control for Steer-by-Wire Systems With AC Motors in Road Vehicles. IEEE Transactions on Industrial Electronics, 2014, 61, 1596-1611.	5.2	166
114	Robust Sliding Mode-Based Learning Control for Steer-by-Wire Systems in Modern Vehicles. IEEE Transactions on Vehicular Technology, 2014, 63, 580-590.	3.9	90
115	Robust Control for Steer-by-Wire Systems With Partially Known Dynamics. IEEE Transactions on Industrial Informatics, 2014, 10, 2003-2015.	7.2	75
116	Robust sliding mode learning control for uncertain discrete-time multi-input multi-output systems. IET Control Theory and Applications, 2014, 8, 1045-1053.	1.2	12
117	Sliding mode based learning control for interconnected systems. , 2013, , .		0
118	Robust sliding mode control for Steer-by-Wire systems with AC motors in road vehicles. , 2013, , .		4
119	Terminal sliding mode control for steer-by-wire system in electric vehicles. , 2012, , .		2