

# Hai Wang

## List of Publications by Year in descending order

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119  
papers

2,933  
citations

159358

30  
h-index

189595

50  
g-index

121  
all docs

121  
docs citations

121  
times ranked

1598  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
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	Recursive sliding mode control with adaptive disturbance observer for a linear motor positioner. Mechanical Systems and Signal Processing, 2021, 146, 107014.	4.4	105
8	Asynchronous Fault Detection Observer for 2-D Markov Jump Systems. IEEE Transactions on Cybernetics, 2022, 52, 13623-13634.	6.2	103
9	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
10	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
11	Robust Control for Steer-by-Wire Systems With Partially Known Dynamics. IEEE Transactions on Industrial Informatics, 2014, 10, 2003-2015.	7.2	75
12	Tracking Control of a Linear Motor Positioner Based on Barrier Function Adaptive Sliding Mode. IEEE Transactions on Industrial Informatics, 2021, 17, 7479-7488.	7.2	73
13	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
14	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
15	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
16	Internal Model Control of PMSM Position Servo System: Theory and Experimental Results. IEEE Transactions on Industrial Informatics, 2020, 16, 2202-2211.	7.2	57
17	Adaptive fast non-singular terminal sliding mode control for a vehicle steer-by-wire system. IET Control Theory and Applications, 2017, 11, 1245-1254.	1.2	54
18	Adaptive Tracking Control of an Electronic Throttle Valve Based on Recursive Terminal Sliding Mode. IEEE Transactions on Vehicular Technology, 2021, 70, 251-262.	3.9	54

#	ARTICLE	IF	CITATIONS
19	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
20	Robust Control of a Vehicle Steer-by-Wire System Using Adaptive Sliding Mode. IEEE Transactions on Industrial Electronics, 2015, , 1-1.	5.2	52
21	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
22	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
23	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
24	Robust adaptive position control of automotive electronic throttle valve using PID-type sliding mode technique. Nonlinear Dynamics, 2016, 85, 1331-1344.	2.7	39
25	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
26	Fast nonsingular terminal sliding mode control for permanent-magnet linear motor via ELM. Neural Computing and Applications, 2020, 32, 14447-14457.	3.2	37
27	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
28	An Online Reinforcement Learning Approach for Dynamic Pricing of Electric Vehicle Charging Stations. IEEE Access, 2020, 8, 130305-130313.	2.6	35
29	Uninterrupted path planning system for Multi-USV sampling mission in a cluttered ocean environment. Ocean Engineering, 2022, 254, 111328.	1.9	35
30	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
31	Extreme-learning-machine-based FNTSM control strategy for electronic throttle. Neural Computing and Applications, 2020, 32, 14507-14518.	3.2	31
32	Neural-network-based robust control for steer-by-wire systems with uncertain dynamics. Neural Computing and Applications, 2015, 26, 1575-1586.	3.2	30
33	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
34	Robust control of reaction wheel bicycle robot via adaptive integral terminal sliding mode. Nonlinear Dynamics, 2021, 104, 2291-2302.	2.7	28
35	Fault Diagnosis for Electromechanical System via Extended Analytical Redundancy Relations. IEEE Transactions on Industrial Informatics, 2018, 14, 5233-5244.	7.2	27
36	Fault Diagnosis and RUL Prediction of Nonlinear Mechatronic System via Adaptive Genetic Algorithm-Particle Filter. IEEE Access, 2019, 7, 11140-11151.	2.6	25

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37	Extreme-learning-machine-based robust integral terminal sliding mode control of bicycle robot. <i>Control Engineering Practice</i> , 2022, 121, 105064.	3.2	24
38	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
39	Precise Discrete-Time Steering Control for Robotic Fish Based on Data-Assisted Technique and Super-Twisting-Like Algorithm. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 10587-10599.	5.2	23
40	Scheduled Health Monitoring of Hybrid Systems With Multiple Distinct Faults. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 1517-1528.	5.2	22
41	Sliding mode-based active disturbance rejection control for vehicle steer-by-wire systems. <i>IET Cyber-Physical Systems: Theory and Applications</i> , 2018, 3, 1-10.	1.9	21
42	A Novel Torque Distribution Strategy Based on Deep Recurrent Neural Network for Parallel Hybrid Electric Vehicle. <i>IEEE Access</i> , 2019, 7, 65174-65185.	2.6	17
43	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
44	Driver Fatigue Detection via Differential Evolution Extreme Learning Machine Technique. <i>Electronics (Switzerland)</i> , 2020, 9, 1850.	1.8	14
45	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
46	Prognosis of Electric Scooter With Intermittent Faults: Dual Degradation Processes Approach. <i>IEEE Transactions on Vehicular Technology</i> , 2022, 71, 1411-1425.	3.9	14
47	Event-Based Sequential Prognosis for Uncertain Hybrid Systems With Intermittent Faults. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 4455-4468.	7.2	13
48	Energy management strategy for electric vehicles based on deep Q-learning using Bayesian optimization. <i>Neural Computing and Applications</i> , 2020, 32, 14431-14445.	3.2	13
49	Robust sliding mode learning control for uncertain discrete-time multi-input multi-output systems. <i>IET Control Theory and Applications</i> , 2014, 8, 1045-1053.	1.2	12
50	Adaptive neural network sliding mode control for steer-by-wire-based vehicle stability control. <i>Journal of Intelligent and Fuzzy Systems</i> , 2016, 31, 885-902.	0.8	12
51	A recurrent neural network for modeling crack growth of aluminium alloy. <i>Neural Computing and Applications</i> , 2016, 27, 197-203.	3.2	11
52	A sequential computational approach to optimal control problems for differential-algebraic systems based on efficient implicit Runge-Kutta integration. <i>Applied Mathematical Modelling</i> , 2018, 58, 313-330.	2.2	11
53	Adaptive full order sliding mode control for electronic throttle valve system with fixed time convergence using extreme learning machine. <i>Neural Computing and Applications</i> , 2022, 34, 5241-5253.	3.2	11
54	Finite-time dissipative control for time-delay Markov jump systems with conic-type nonlinearities under guaranteed cost controller and quantiser. <i>IET Control Theory and Applications</i> , 2021, 15, 489-498.	1.2	11

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55	Steering Feel Design for Steer-by-Wire System on Electric Vehicles. , 2019, , .		10
56	Leakage-type adaptive state and disturbance observers for uncertain nonlinear systems. Nonlinear Dynamics, 2021, 105, 2299-2311.	2.7	10
57	Discrete-time modified repetitive sliding mode control for uncertain linear systems. International Journal of Adaptive Control and Signal Processing, 2021, 35, 2245-2258.	2.3	10
58	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
59	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
60	A novel sliding mode control for lane keeping in road vehicles. , 2016, , .		9
61	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
62	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
63	Sliding mode learning control of non-minimum phase nonlinear systems. International Journal of Robust and Nonlinear Control, 2016, 26, 2281-2298.	2.1	8
64	Position control of spherical inverted pendulum via improved discrete-time neural network approach. Nonlinear Dynamics, 2020, 99, 2867-2875.	2.7	8
65	Robust adaptive estimation and tracking control for perturbed cyber-physical systems against denial of service. Applied Mathematics and Computation, 2021, 404, 126255.	1.4	8
66	Sliding mode learning based congestion control for DiffServ networks. IET Control Theory and Applications, 2016, 10, 1281-1287.	1.2	7
67	Compound Fault Diagnosis and Sequential Prognosis for Electric Scooter with Uncertainties. Actuators, 2020, 9, 128.	1.2	7
68	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
69	Discrete-time integral terminal sliding mode-based speed tracking control for a robotic fish. Nonlinear Dynamics, 2021, 105, 359-370.	2.7	6
70	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
71	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
72	Robust control for vehicle lane-keeping with sliding mode. , 2017, , .		5

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73	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
74	Global robust output regulation of a class of MIMO nonlinear systems by nonlinear internal model control. International Journal of Robust and Nonlinear Control, 2021, 31, 4037-4051.	2.1	5
75	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
76	Terminal time regulator-based exact-time sliding mode control for uncertain nonlinear systems. International Journal of Robust and Nonlinear Control, 2022, 32, 7536-7553.	2.1	5
77	Finite-time tracking control for nonholonomic wheeled mobile robot using adaptive fast nonsingular terminal sliding mode. Nonlinear Dynamics, 2022, 110, 1437-1453.	2.7	5
78	Robust sliding mode control for Steer-by-Wire systems with AC motors in road vehicles. , 2013, , .		4
79	Robust chattering-free sliding mode control of electronic throttle systems in drive-by-wire vehicles. , 2017, , .		4
80	A Novel Integral Terminal Sliding Mode Control of Yaw Stability for Steer-by-Wire Vehicles. , 2018, , .		4
81	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
82	Control of an IPMC Soft Actuator Using Adaptive Full-Order Recursive Terminal Sliding Mode. Actuators, 2021, 10, 33.	1.2	4
83	Computational Intelligence-Based Prognosis for Hybrid Mechatronic System Using Improved Wiener Process. Actuators, 2021, 10, 213.	1.2	4
84	Adaptive Cuckoo Search-Extreme Learning Machine Based Prognosis for Electric Scooter System Under Intermittent Fault. Actuators, 2021, 10, 283.	1.2	4
85	Adaptive Control of Uncertain Nonlinear Systems via Event-Triggered Communication and NN Learning. IEEE Transactions on Cybernetics, 2023, 53, 2391-2401.	6.2	4
86	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
87	Robust hierarchical sliding mode control for steer-by-wire equipped vehicle yaw stability control. , 2017, , .		3
88	Robust terminal sliding mode control for automotive electronic throttle with lumped uncertainty estimation. International Journal of Vehicle Design, 2017, 74, 19.	0.1	3
89	A Novel Data-Assisted Model and Discrete-Time Sliding Mode Steering Controller of Robotic Fish. , 2018, , .		3
90	Reinforcement learning-based adaptive optimal tracking algorithm for Markov jump systems with partial unknown dynamics. Optimal Control Applications and Methods, 2022, 43, 1435-1449.	1.3	3

#	ARTICLE	IF	CITATIONS
91	Terminal sliding mode control for steer-by-wire system in electric vehicles. , 2012, , .		2
92	RBF-neural-network-based sliding mode controller of automotive Steer-by-Wire systems. , 2015, , .		2
93	Sliding mode adaptive control for DC motors using function approximation form. International Journal of Modelling, Identification and Control, 2016, 26, 238.	0.2	2
94	Discrete-time sliding mode learning based congestion control for connection-oriented communication networks. , 2016, , .		2
95	A novel hierarchical sliding mode control strategy for a two-wheeled self-balancing vehicle. , 2017, , .		2
96	Fuzzy Disturbance Observer Design for a Class of Nonlinear SISO Systems. International Journal of Fuzzy Systems, 2022, 24, 147-158.	2.3	2
97	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
98	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
99	A New Extended Sliding Mode Observer for Second-order Linear Systems. , 2021, , .		2
100	A composite control scheme for automotive Steer-By-Wire system. , 2014, , .		1
101	Intelligent multiple-fault diagnosis of a mobile robot system in the presence of hide effect. , 2016, , .		1
102	Robust Discrete Time Integral Terminal Sliding Mode Control for Steering-By-Wire Systems based on Input-Output Model. , 2019, , .		1
103	Discrete time fast sliding-mode control for permanent magnet linear motor with nonlinear extended state observer. , 2019, , .		1
104	Robust fast nonsingular terminal sliding mode control strategy for electronic throttle based on extreme learning machine. , 2019, , .		1
105	Extreme-learning-machine-based robust AITSM control for steer-by-wire systems. , 2019, , .		1
106	Practical Model-Free Robust Control Design for an Underwater IPMC Actuator. , 2019, , .		1
107	Robotic Fish Path Planning in Complex Environment. , 2019, , .		1
108	Sliding mode based learning control for interconnected systems. , 2013, , .		0

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109	Intelligent fault diagnosis of induction motor with stator winding fault. , 2015, , .		0
110	Robust adaptive position control of automotive electronic throttle valve using PID-type sliding mode technique. , 2016, , .		0
111	A Novel Yawing Suppression Model and Control of Robotic Fish via Stable Point. , 2018, , .		0
112	Fast Nonsingular Terminal Sliding Control for Permanent Magnet Linear Motor via Extreme Learning Machine Estimator. , 2019, , .		0
113	Krill Herd Optimization based Fault Diagnosis for Hybrid Mechatronic System. , 2019, , .		0
114	Step-By-Step Coordination Control of Multiple Robot Fish Based on Discrete Integral Terminal Sliding Mode. , 2020, , .		0
115	Discrete Time Fast Terminal Sliding-Mode for Steer-by-Wire Systems with Nonlinear Disturbance Observer. , 2020, , .		0
116	Real-Time Control Systems with Applications in Mechatronics. , 2021, , 1-36.		0
117	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
118	Parameter Estimation of Robotic Manipulator in Frequency Domain. , 2021, , .		0
119	Parameter Estimation for Robotic Manipulator Systems. Machines, 2022, 10, 392.	1.2	0