Dezhi Xu

List of Publications by Year
in descending order

83 papers	1,706 citations	257357 24 h-index	302012 39 g-index
83 all docs	83 docs citations	83 times ranked	1418 citing authors

#	Article	IF	Citations
1	Nonsingular Fast Terminal Sliding Mode Control for Permanent Magnet Linear Synchronous Motor via High-Order Super-Twisting Observer. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1651-1659.	3.7	30
2	Anti-Disturbance Cooperative Fuzzy Tracking Control of Multi-PMSMs Low-Speed Urban Rail Traction Systems. IEEE Transactions on Transportation Electrification, 2022, 8, 1040-1052.	5.3	7
3	Robust Model Predictive Control for Linear Systems via Self-Triggered Pseudo Terminal Ingredients. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 1312-1322.	3.5	5
4	Attack resilient control for vehicle platoon system with full states constraint under actuator faulty scenario. Applied Mathematics and Computation, 2022, 419, 126874.	1.4	10
5	Distributed Sliding Mode Fault-Tolerant LFC for Multiarea Interconnected Power Systems under Sensor Fault. Complexity, 2022, 2022, 1-14.	0.9	1
6	Prescribed Performance-Based Adaptive Terminal Sliding Mode Control for Virtual Synchronous Generators. Mathematical Problems in Engineering, 2022, 2022, 1-10.	0.6	2
7	Virtual-Sensor-Based Model-Free Adaptive Fault-Tolerant Constrained Control for Discrete-Time Nonlinear Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 4191-4202.	3.5	6
8	Development of Machine Vision System for Off-Line Inspection of Fine Defects on Glass Screen Surface. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	2.4	0
9	A Novel Multi-Agent Model-Free Control for State-of-Charge Balancing Between Distributed Battery Energy Storage Systems. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 679-688.	3.4	16
10	Prescribed performance based model-free adaptive sliding mode constrained control for a class of nonlinear systems. Information Sciences, 2021, 544, 97-116.	4.0	49
11	Disturbance-Observer-Based Terminal Sliding Mode Control for Linear Traction System With Prescribed Performance. IEEE Transactions on Transportation Electrification, 2021, 7, 649-658.	5.3	30
12	Adaptive Cooperative Terminal Sliding Mode Control for Distributed Energy Storage Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 434-443.	3.5	27
13	Finite-time disturbance observer–based funnel voltage control strategy for vehicle-to-grid inverter in islanded mode. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 1571-1582.	0.7	1
14	Robust free-time-stable fault tolerant control for rigid satellite attitude system with output constraint. International Journal of Robust and Nonlinear Control, 2021, 31, 7587.	2.1	2
15	Disturbance-observer based prescribed-performance fuzzy sliding mode control for PMSM in electric vehicles. Engineering Applications of Artificial Intelligence, 2021, 104, 104361.	4.3	38
16	Barrier Lyapunov function-based adaptive fuzzy attitude tracking control for rigid satellite with input delay and output constraint. Journal of the Franklin Institute, 2021, 358, 9110-9134.	1.9	6
17	Multi-VSM based fuzzy adaptive cooperative control strategy for MVDC traction power supply system. Journal of the Franklin Institute, 2021, 358, 7559-7585.	1.9	6
18	A novel dual-mode robust model predictive control approach via alternating optimizations. Automatica, 2021, 133, 109857.	3.0	11

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19	Hierarchical global fast terminal sliding‐mode control for a bridge travelling crane system. IET Control Theory and Applications, 2021, 15, 814-828.	1.2	11
20	A load frequency control strategy based on disturbance reconstruction for multi-area interconnected power system with hybrid energy storage system. Energy Reports, 2021, 7, 8849-8857.	2.5	13
21	Estimation Of Battery State Of Health Based On Random Weight PSO-ELM. , 2021, , .		0
22	Model-Free Cooperative Adaptive Sliding-Mode-Constrained-Control for Multiple Linear Induction Traction Systems. IEEE Transactions on Cybernetics, 2020, 50, 4076-4086.	6.2	41
23	A Novel Double-Quadrant SoC Consistent Adaptive Droop Control in DC Microgrids. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2034-2038.	2.2	9
24	Directed-Graph-Observer-Based Model-Free Cooperative Sliding Mode Control for Distributed Energy Storage Systems in DC Microgrid. IEEE Transactions on Industrial Informatics, 2020, 16, 1224-1235.	7.2	35
25	Distributed fault detection and estimation in cyber–physical systems subject to actuator faults. ISA Transactions, 2020, 104, 162-174.	3.1	29
26	A Novel Command-Filtered Adaptive Backstepping Control Strategy with Prescribed Performance for Photovoltaic Grid-Connected Systems. Sustainability, 2020, 12, 7429.	1.6	4
27	Adaptive Command-Filtered Fuzzy Nonsingular Terminal Sliding Mode Backstepping Control for Linear Induction Motor. Applied Sciences (Switzerland), 2020, 10, 7405.	1.3	2
28	Disturbance Observer-Based Prescribed Performance Fault-Tolerant Control for a Multi-Area Interconnected Power System with a Hybrid Energy Storage System. Energies, 2020, 13, 1251.	1.6	6
29	An interval-estimation-based anti-disturbance sliding mode control strategy for rigid satellite with prescribed performance. ISA Transactions, 2020, 105, 63-76.	3.1	12
30	Dynamic SOC Balance Strategy for Modular Energy Storage System Based on Adaptive Droop Control. IEEE Access, 2020, 8, 41418-41431.	2.6	17
31	Adaptive Neural Fault-Tolerant Control for the Yaw Control of UAV Helicopters with Input Saturation and Full-State Constraints. Applied Sciences (Switzerland), 2020, 10, 1404.	1.3	10
32	Prescribed Performance Adaptive Backstepping Control for Winding Segmented Permanent Magnet Linear Synchronous Motor. Mathematical and Computational Applications, 2020, 25, 18.	0.7	2
33	Actuator fault-tolerant load frequency control for interconnected power systems with hybrid energy storage system. Energy Reports, 2020, 6, 1312-1317.	2.5	16
34	Nonsingular Terminal Sliding Mode Control for PMLSM Based on Disturbance Observer. , 2020, , .		2
35	Command-Filtered Backstepping Controller for DC Microgrid with Hybrid Energy Storage Devices. , 2020, , .		0
36	Adaptive Terminal Sliding Mode Backstepping Control for Virtual Synchronous Generators. , 2020, , .		0

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37	Fault-Tolerant Control for Load Frequency Control System via a Fault Observer. , 2020, , .		0
38	Adaptive Command-Filtered Backstepping Control for Virtual Synchronous Generators. Energies, 2019, 12, 2681.	1.6	8
39	Observer-Based Sliding Mode FTC for Multi-Area Interconnected Power Systems against Hybrid Energy Storage Faults. Energies, 2019, 12, 2819.	1.6	4
40	Improved Finite Control Set Model Predictive Control for Permanent Magnet Synchronous Motor Drives. , 2019, , .		2
41	Uniform State-of-Charge Control Strategy for Plug-and-Play Electric Vehicle in Super-UPS. IEEE Transactions on Transportation Electrification, 2019, 5, 1145-1154.	5.3	11
42	Adaptive Terminal Sliding Mode Control for Hybrid Energy Storage Systems of Fuel Cell, Battery and Supercapacitor. IEEE Access, 2019, 7, 29295-29303.	2.6	47
43	Data-driven Sliding Mode Control for MIMO systems and Its Application on Linear Induction Motors. International Journal of Control, Automation and Systems, 2019, 17, 1717-1725.	1.6	13
44	Event-Triggered $\mathscr{H}_{\infty}$ -Type Robust Model Predictive Control of Linear Systems With Disturbances. IEEE Access, 2019, 7, 53859-53867.	2.6	10
45	Model-free adaptive command-filtered-backstepping sliding mode control for discrete-time high-order nonlinear systems. Information Sciences, 2019, 485, 141-153.	4.0	30
46	A novel adaptive command-filtered backstepping sliding mode control for PV grid-connected system with energy storage. Solar Energy, 2019, 178, 222-230.	2.9	49
47	A novel robust model predictive control approach with pseudo terminal designs. Information Sciences, 2019, 481, 128-140.	4.0	8
48	Adaptive fuzzy sliding mode command-filtered backstepping control for islanded PV microgrid with energy storage system. Journal of the Franklin Institute, 2019, 356, 1880-1898.	1.9	33
49	Adaptive command-filtered fuzzy backstepping control for linear induction motor with unknown end effect. Information Sciences, 2019, 477, 118-131.	4.0	42
50	Finiteâ€Time Faultâ€Tolerant Control for a Class of Nonâ€Affine Nonlinear System Using Sliding Mode Disturbance Observer. Asian Journal of Control, 2019, 21, 364-376.	1.9	9
51	A Novel Adaptive Neural Network Constrained Control for a Multi-Area Interconnected Power System With Hybrid Energy Storage. IEEE Transactions on Industrial Electronics, 2018, 65, 6625-6634.	5.2	151
52	Finite-Time Stabilization for a Class of Non-Affine Nonlinear Systems With Input Saturation and Time-Varying Output Constraints. IEEE Access, 2018, 6, 23529-23539.	2.6	16
53	Model-Free Adaptive Discrete-Time Integral Sliding-Mode-Constrained-Control for Autonomous 4WMV Parking Systems. IEEE Transactions on Industrial Electronics, 2018, 65, 834-843.	5.2	110
54	Adaptive-Observer-Based Data Driven Voltage Control in Islanded-Mode of Distributed Energy Resource Systems. Energies, 2018, 11, 3299.	1.6	5

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55	Hâˇž Robust Load Frequency Control for Multi-Area Interconnected Power System with Hybrid Energy Storage System. Applied Sciences (Switzerland), 2018, 8, 1748.	1.3	17
56	A Model-free Control Strategy for Battery Energy Storage with an Application to Power Accommodation. , 2018, , .		6
57	Direct Torque Control of PMSM Based on Model Free iPI Controller. , 2018, , .		1
58	Power Management of Battery Energy Storage System Using Model Free Adaptive Control. , 2018, , .		2
59	Observer-based terminal sliding mode control of non-affine nonlinear systems: Finite-time approach. Journal of the Franklin Institute, 2018, 355, 7985-8004.	1.9	36
60	Improved Model-Free Adaptive Sliding-Mode-Constrained Control for Linear Induction Motor considering End Effects. Mathematical Problems in Engineering, 2018, 2018, 1-9.	0.6	4
61	Adaptive neural network automatic parking constrained control via anti-windup compensator. Advances in Mechanical Engineering, 2017, 9, 168781401770083.	0.8	4
62	Adaptive nonlinear controller design for fuel cell/supercapacitor hybrid energy storage system with model uncertainties. , 2017, , .		0
63	Generic model control for hybrid energy storage system in electric vehicles. , 2017, , .		2
64	Nonlinear adaptive command-filtered backstepping controller design for three-phase grid-connected solar photovoltaic with unknown parameters. , 2017, , .		3
65	Robust Fault Detection and Estimation in Nonlinear Systems with Unknown Constant Time-Delays. Mathematical Problems in Engineering, 2017, 2017, 1-14.	0.6	5
66	Nonlinear Control of Back-to-Back VSC-HVDC System via Command-Filter Backstepping. Journal of Control Science and Engineering, 2017, 2017, 1-10.	0.8	8
67	Adaptive fuzzy tracking control for non-affine nonlinear yaw channel of unmanned aerial vehicle helicopter. International Journal of Advanced Robotic Systems, 2017, 14, 172988141667813.	1.3	1
68	Adaptive Command-Filtered Backstepping Control for Linear Induction Motor via Projection Algorithm. Mathematical Problems in Engineering, 2016, 2016, 1-13.	0.6	7
69	Fault tolerant flight-control via control allocation for reusable launch vehicles with aerodynamic control surfaces stuck. , 2016, , .		1
70	RBF neural network based adaptive constrained PID control of a solid oxide fuel cell. , 2016, , .		9
71	Improved data driven model free adaptive constrained control for a solid oxide fuel cell. IET Control Theory and Applications, 2016, 10, 1412-1419.	1.2	60
72	A novel adaptive neural network constrained control for solid oxide fuel cells via dynamic anti-windup. Neurocomputing, 2016, 214, 134-142.	3.5	31

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73	Model Free Command Filtered Backstepping Control for Marine Power Systems. Mathematical Problems in Engineering, 2015, 2015, 1-8.	0.6	4
74	Robust NSV Fault-Tolerant Control System Design Against Actuator Faults and Control Surface Damage Under Actuator Dynamics. IEEE Transactions on Industrial Electronics, 2015, 62, 5919-5928.	5.2	99
75	Adaptive neural observerâ€based backstepping fault tolerant control for near space vehicle under control effector damage. IET Control Theory and Applications, 2014, 8, 658-666.	1.2	70
76	Novel robust nonlinear control of magnetic bearing system based on extended state observer. , 2014, , .		0
77	A Novel Model-Free Adaptive Control Design for Multivariable Industrial Processes. IEEE Transactions on Industrial Electronics, 2014, 61, 6391-6398.	5.2	156
78	Adaptive Observer Based Data-Driven Control for Nonlinear Discrete-Time Processes. IEEE Transactions on Automation Science and Engineering, 2014, , 1-9.	3.4	57
79	Decentralized asymptotic fault tolerant control of near space vehicle with high order actuator dynamics. Journal of the Franklin Institute, 2013, 350, 2519-2534.	1.9	41
80	Terminal Sliding Mode Control Using Adaptive Fuzzy-Neural Observer. Mathematical Problems in Engineering, 2013, 2013, 1-8.	0.6	12
81	Fault tolerant control scheme design for the formation control system of unmanned aerial vehicles. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2013, 227, 626-634.	0.7	13
82	Fault-tolerant control design for near-space vehicles based on a dynamic terminal sliding mode technique. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2012, 226, 787-794.	0.7	15
83	Fault Tolerant Tracking Control Scheme for UAV Using Dynamic Surface Control Technique. Circuits, Systems, and Signal Processing, 2012, 31, 1713-1729.	1.2	38