

Dezhi Xu

List of Publications by Year in descending order

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257450

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302126

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83

all docs

83

docs citations

83

times ranked

1418

citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Model-Free Adaptive Control Design for Multivariable Industrial Processes. IEEE Transactions on Industrial Electronics, 2014, 61, 6391-6398.	7.9	156
2	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.	7.9	151
3	Model-Free Adaptive Discrete-Time Integral Sliding-Mode-Constrained-Control for Autonomous 4WMV Parking Systems. IEEE Transactions on Industrial Electronics, 2018, 65, 834-843.	7.9	110
4	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.	7.9	99
5	Adaptive neural observer-based backstepping fault tolerant control for near space vehicle under control effector damage. IET Control Theory and Applications, 2014, 8, 658-666.	2.1	70
6	Improved data driven model free adaptive constrained control for a solid oxide fuel cell. IET Control Theory and Applications, 2016, 10, 1412-1419.	2.1	60
7	Adaptive Observer Based Data-Driven Control for Nonlinear Discrete-Time Processes. IEEE Transactions on Automation Science and Engineering, 2014, , 1-9.	5.2	57
8	A novel adaptive command-filtered backstepping sliding mode control for PV grid-connected system with energy storage. Solar Energy, 2019, 178, 222-230.	6.1	49
9	Prescribed performance based model-free adaptive sliding mode constrained control for a class of nonlinear systems. Information Sciences, 2021, 544, 97-116.	6.9	49
10	Adaptive Terminal Sliding Mode Control for Hybrid Energy Storage Systems of Fuel Cell, Battery and Supercapacitor. IEEE Access, 2019, 7, 29295-29303.	4.2	47
11	Adaptive command-filtered fuzzy backstepping control for linear induction motor with unknown end effect. Information Sciences, 2019, 477, 118-131.	6.9	42
12	Decentralized asymptotic fault tolerant control of near space vehicle with high order actuator dynamics. Journal of the Franklin Institute, 2013, 350, 2519-2534.	3.4	41
13	Model-Free Cooperative Adaptive Sliding-Mode-Constrained-Control for Multiple Linear Induction Traction Systems. IEEE Transactions on Cybernetics, 2020, 50, 4076-4086.	9.5	41
14	Fault Tolerant Tracking Control Scheme for UAV Using Dynamic Surface Control Technique. Circuits, Systems, and Signal Processing, 2012, 31, 1713-1729.	2.0	38
15	Disturbance-observer based prescribed-performance fuzzy sliding mode control for PMSM in electric vehicles. Engineering Applications of Artificial Intelligence, 2021, 104, 104361.	8.1	38
16	Observer-based terminal sliding mode control of non-affine nonlinear systems: Finite-time approach. Journal of the Franklin Institute, 2018, 355, 7985-8004.	3.4	36
17	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.	11.3	35
18	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.	3.4	33

#	ARTICLE	IF	CITATIONS
19	A novel adaptive neural network constrained control for solid oxide fuel cells via dynamic anti-windup. <i>Neurocomputing</i> , 2016, 214, 134-142.	5.9	31
20	Model-free adaptive command-filtered-backstepping sliding mode control for discrete-time high-order nonlinear systems. <i>Information Sciences</i> , 2019, 485, 141-153.	6.9	30
21	Disturbance-Observer-Based Terminal Sliding Mode Control for Linear Traction System With Prescribed Performance. <i>IEEE Transactions on Transportation Electrification</i> , 2021, 7, 649-658.	7.8	30
22	Nonsingular Fast Terminal Sliding Mode Control for Permanent Magnet Linear Synchronous Motor via High-Order Super-Twisting Observer. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 1651-1659.	5.8	30
23	Distributed fault detection and estimation in cyber-physical systems subject to actuator faults. <i>ISA Transactions</i> , 2020, 104, 162-174.	5.7	29
24	Adaptive Cooperative Terminal Sliding Mode Control for Distributed Energy Storage Systems. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021, 68, 434-443.	5.4	27
25	H ∞ Robust Load Frequency Control for Multi-Area Interconnected Power System with Hybrid Energy Storage System. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1748.	2.5	17
26	Dynamic SOC Balance Strategy for Modular Energy Storage System Based on Adaptive Droop Control. <i>IEEE Access</i> , 2020, 8, 41418-41431.	4.2	17
27	Finite-Time Stabilization for a Class of Non-Affine Nonlinear Systems With Input Saturation and Time-Varying Output Constraints. <i>IEEE Access</i> , 2018, 6, 23529-23539.	4.2	16
28	A Novel Multi-Agent Model-Free Control for State-of-Charge Balancing Between Distributed Battery Energy Storage Systems. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2021, 5, 679-688.	4.9	16
29	Actuator fault-tolerant load frequency control for interconnected power systems with hybrid energy storage system. <i>Energy Reports</i> , 2020, 6, 1312-1317.	5.1	16
30	Fault-tolerant control design for near-space vehicles based on a dynamic terminal sliding mode technique. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2012, 226, 787-794.	1.0	15
31	Fault tolerant control scheme design for the formation control system of unmanned aerial vehicles. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2013, 227, 626-634.	1.0	13
32	Data-driven Sliding Mode Control for MIMO systems and Its Application on Linear Induction Motors. <i>International Journal of Control, Automation and Systems</i> , 2019, 17, 1717-1725.	2.7	13
33	A load frequency control strategy based on disturbance reconstruction for multi-area interconnected power system with hybrid energy storage system. <i>Energy Reports</i> , 2021, 7, 8849-8857.	5.1	13
34	Terminal Sliding Mode Control Using Adaptive Fuzzy-Neural Observer. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-8.	1.1	12
35	An interval-estimation-based anti-disturbance sliding mode control strategy for rigid satellite with prescribed performance. <i>ISA Transactions</i> , 2020, 105, 63-76.	5.7	12
36	Uniform State-of-Charge Control Strategy for Plug-and-Play Electric Vehicle in Super-UPS. <i>IEEE Transactions on Transportation Electrification</i> , 2019, 5, 1145-1154.	7.8	11

#	ARTICLE	IF	CITATIONS
37	A novel dual-mode robust model predictive control approach via alternating optimizations. Automatica, 2021, 133, 109857.	5.0	11
38	Hierarchical global fast terminal sliding-mode control for a bridge travelling crane system. IET Control Theory and Applications, 2021, 15, 814-828.	2.1	11
39	Event-Triggered \mathcal{H}_{∞} -Type Robust Model Predictive Control of Linear Systems With Disturbances. IEEE Access, 2019, 7, 53859-53867.	4.2	10
40	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.	2.5	10
41	Attack resilient control for vehicle platoon system with full states constraint under actuator faulty scenario. Applied Mathematics and Computation, 2022, 419, 126874.	2.2	10
42	RBF neural network based adaptive constrained PID control of a solid oxide fuel cell. , 2016, , .		9
43	Finite-Time Fault-Tolerant Control for a Class of Non-Affine Nonlinear System Using Sliding Mode Disturbance Observer. Asian Journal of Control, 2019, 21, 364-376.	3.0	9
44	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.	3.0	9
45	Nonlinear Control of Back-to-Back VSC-HVDC System via Command-Filter Backstepping. Journal of Control Science and Engineering, 2017, 2017, 1-10.	1.0	8
46	Adaptive Command-Filtered Backstepping Control for Virtual Synchronous Generators. Energies, 2019, 12, 2681.	3.1	8
47	A novel robust model predictive control approach with pseudo terminal designs. Information Sciences, 2019, 481, 128-140.	6.9	8
48	Adaptive Command-Filtered Backstepping Control for Linear Induction Motor via Projection Algorithm. Mathematical Problems in Engineering, 2016, 2016, 1-13.	1.1	7
49	Anti-Disturbance Cooperative Fuzzy Tracking Control of Multi-PMSMs Low-Speed Urban Rail Traction Systems. IEEE Transactions on Transportation Electrification, 2022, 8, 1040-1052.	7.8	7
50	A Model-free Control Strategy for Battery Energy Storage with an Application to Power Accommodation. , 2018, , .		6
51	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.	3.1	6
52	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.	3.4	6
53	Multi-VSM based fuzzy adaptive cooperative control strategy for MVDC traction power supply system. Journal of the Franklin Institute, 2021, 358, 7559-7585.	3.4	6
54	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.	5.4	6

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55	Robust Fault Detection and Estimation in Nonlinear Systems with Unknown Constant Time-Delays. Mathematical Problems in Engineering, 2017, 2017, 1-14.	1.1	5
56	Adaptive-Observer-Based Data Driven Voltage Control in Islanded-Mode of Distributed Energy Resource Systems. Energies, 2018, 11, 3299.	3.1	5
57	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.	5.4	5
58	Model Free Command Filtered Backstepping Control for Marine Power Systems. Mathematical Problems in Engineering, 2015, 2015, 1-8.	1.1	4
59	Adaptive neural network automatic parking constrained control via anti-windup compensator. Advances in Mechanical Engineering, 2017, 9, 168781401770083.	1.6	4
60	Improved Model-Free Adaptive Sliding-Mode-Constrained Control for Linear Induction Motor considering End Effects. Mathematical Problems in Engineering, 2018, 2018, 1-9.	1.1	4
61	Observer-Based Sliding Mode FTC for Multi-Area Interconnected Power Systems against Hybrid Energy Storage Faults. Energies, 2019, 12, 2819.	3.1	4
62	A Novel Command-Filtered Adaptive Backstepping Control Strategy with Prescribed Performance for Photovoltaic Grid-Connected Systems. Sustainability, 2020, 12, 7429.	3.2	4
63	Nonlinear adaptive command-filtered backstepping controller design for three-phase grid-connected solar photovoltaic with unknown parameters. , 2017, , .		3
64	Generic model control for hybrid energy storage system in electric vehicles. , 2017, , .		2
65	Power Management of Battery Energy Storage System Using Model Free Adaptive Control. , 2018, , .		2
66	Improved Finite Control Set Model Predictive Control for Permanent Magnet Synchronous Motor Drives. , 2019, , .		2
67	Adaptive Command-Filtered Fuzzy Nonsingular Terminal Sliding Mode Backstepping Control for Linear Induction Motor. Applied Sciences (Switzerland), 2020, 10, 7405.	2.5	2
68	Prescribed Performance Adaptive Backstepping Control for Winding Segmented Permanent Magnet Linear Synchronous Motor. Mathematical and Computational Applications, 2020, 25, 18.	1.3	2
69	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.	3.7	2
70	Nonsingular Terminal Sliding Mode Control for PMLSM Based on Disturbance Observer. , 2020, , .		2
71	Prescribed Performance-Based Adaptive Terminal Sliding Mode Control for Virtual Synchronous Generators. Mathematical Problems in Engineering, 2022, 2022, 1-10.	1.1	2
72	Fault tolerant flight-control via control allocation for reusable launch vehicles with aerodynamic control surfaces stuck. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
73	Direct Torque Control of PMSM Based on Model Free iPI Controller. , 2018, , .		1
74	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.	1.0	1
75	Adaptive fuzzy tracking control for non-affine nonlinear yaw channel of unmanned aerial vehicle helicopter. International Journal of Advanced Robotic Systems, 2017, 14, 172988141667813.	2.1	1
76	Distributed Sliding Mode Fault-Tolerant LFC for Multiarea Interconnected Power Systems under Sensor Fault. Complexity, 2022, 2022, 1-14.	1.6	1
77	Novel robust nonlinear control of magnetic bearing system based on extended state observer. , 2014, , .		0
78	Adaptive nonlinear controller design for fuel cell/supercapacitor hybrid energy storage system with model uncertainties. , 2017, , .		0
79	Command-Filtered Backstepping Controller for DC Microgrid with Hybrid Energy Storage Devices. , 2020, , .		0
80	Adaptive Terminal Sliding Mode Backstepping Control for Virtual Synchronous Generators. , 2020, , .		0
81	Fault-Tolerant Control for Load Frequency Control System via a Fault Observer. , 2020, , .		0
82	Estimation Of Battery State Of Health Based On Random Weight PSO-ELM. , 2021, , .		0
83	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.	4.7	0