

Dezhi Xu

List of Publications by Year in descending order

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papers

1,706
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257357

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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.	5.2	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.	5.2	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.	5.2	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.	5.2	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.	1.2	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.	1.2	60
7	Adaptive Observer Based Data-Driven Control for Nonlinear Discrete-Time Processes. IEEE Transactions on Automation Science and Engineering, 2014, , 1-9.	3.4	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.	2.9	49
9	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
10	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
11	Adaptive command-filtered fuzzy backstepping control for linear induction motor with unknown end effect. Information Sciences, 2019, 477, 118-131.	4.0	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.	1.9	41
13	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
14	Fault Tolerant Tracking Control Scheme for UAV Using Dynamic Surface Control Technique. Circuits, Systems, and Signal Processing, 2012, 31, 1713-1729.	1.2	38
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	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
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.	7.2	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.	1.9	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.	3.5	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.	4.0	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.	5.3	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.	3.7	30
23	Distributed fault detection and estimation in cyber-physical systems subject to actuator faults. <i>ISA Transactions</i> , 2020, 104, 162-174.	3.1	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.	3.5	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.	1.3	17
26	Dynamic SOC Balance Strategy for Modular Energy Storage System Based on Adaptive Droop Control. <i>IEEE Access</i> , 2020, 8, 41418-41431.	2.6	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.	2.6	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.	3.4	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.	2.5	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.	0.7	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.	0.7	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.	1.6	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.	2.5	13
34	Terminal Sliding Mode Control Using Adaptive Fuzzy-Neural Observer. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-8.	0.6	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.	3.1	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.	5.3	11

#	ARTICLE	IF	CITATIONS
37	A novel dual-mode robust model predictive control approach via alternating optimizations. <i>Automatica</i> , 2021, 133, 109857.	3.0	11
38	Hierarchical global fast terminal sliding-mode control for a bridge travelling crane system. <i>IET Control Theory and Applications</i> , 2021, 15, 814-828.	1.2	11
39	Event-Triggered \mathscr{H}_{∞} -Type Robust Model Predictive Control of Linear Systems With Disturbances. <i>IEEE Access</i> , 2019, 7, 53859-53867.	2.6	10
40	Adaptive Neural Fault-Tolerant Control for the Yaw Control of UAV Helicopters with Input Saturation and Full-State Constraints. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1404.	1.3	10
41	Attack resilient control for vehicle platoon system with full states constraint under actuator faulty scenario. <i>Applied Mathematics and Computation</i> , 2022, 419, 126874.	1.4	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. <i>Asian Journal of Control</i> , 2019, 21, 364-376.	1.9	9
44	A Novel Double-Quadrant SoC Consistent Adaptive Droop Control in DC Microgrids. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020, 67, 2034-2038.	2.2	9
45	Nonlinear Control of Back-to-Back VSC-HVDC System via Command-Filter Backstepping. <i>Journal of Control Science and Engineering</i> , 2017, 2017, 1-10.	0.8	8
46	Adaptive Command-Filtered Backstepping Control for Virtual Synchronous Generators. <i>Energies</i> , 2019, 12, 2681.	1.6	8
47	A novel robust model predictive control approach with pseudo terminal designs. <i>Information Sciences</i> , 2019, 481, 128-140.	4.0	8
48	Adaptive Command-Filtered Backstepping Control for Linear Induction Motor via Projection Algorithm. <i>Mathematical Problems in Engineering</i> , 2016, 2016, 1-13.	0.6	7
49	Anti-Disturbance Cooperative Fuzzy Tracking Control of Multi-PMSMs Low-Speed Urban Rail Traction Systems. <i>IEEE Transactions on Transportation Electrification</i> , 2022, 8, 1040-1052.	5.3	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. <i>Energies</i> , 2020, 13, 1251.	1.6	6
52	Barrier Lyapunov function-based adaptive fuzzy attitude tracking control for rigid satellite with input delay and output constraint. <i>Journal of the Franklin Institute</i> , 2021, 358, 9110-9134.	1.9	6
53	Multi-VSM based fuzzy adaptive cooperative control strategy for MVDC traction power supply system. <i>Journal of the Franklin Institute</i> , 2021, 358, 7559-7585.	1.9	6
54	Virtual-Sensor-Based Model-Free Adaptive Fault-Tolerant Constrained Control for Discrete-Time Nonlinear Systems. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2022, 69, 4191-4202.	3.5	6

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55	Robust Fault Detection and Estimation in Nonlinear Systems with Unknown Constant Time-Delays. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-14.	0.6	5
56	Adaptive-Observer-Based Data Driven Voltage Control in Islanded-Mode of Distributed Energy Resource Systems. <i>Energies</i> , 2018, 11, 3299.	1.6	5
57	Robust Model Predictive Control for Linear Systems via Self-Triggered Pseudo Terminal Ingredients. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2022, 69, 1312-1322.	3.5	5
58	Model Free Command Filtered Backstepping Control for Marine Power Systems. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-8.	0.6	4
59	Adaptive neural network automatic parking constrained control via anti-windup compensator. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401770083.	0.8	4
60	Improved Model-Free Adaptive Sliding-Mode-Constrained Control for Linear Induction Motor considering End Effects. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-9.	0.6	4
61	Observer-Based Sliding Mode FTC for Multi-Area Interconnected Power Systems against Hybrid Energy Storage Faults. <i>Energies</i> , 2019, 12, 2819.	1.6	4
62	A Novel Command-Filtered Adaptive Backstepping Control Strategy with Prescribed Performance for Photovoltaic Grid-Connected Systems. <i>Sustainability</i> , 2020, 12, 7429.	1.6	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. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7405.	1.3	2
68	Prescribed Performance Adaptive Backstepping Control for Winding Segmented Permanent Magnet Linear Synchronous Motor. <i>Mathematical and Computational Applications</i> , 2020, 25, 18.	0.7	2
69	Robust free-time-stable fault tolerant control for rigid satellite attitude system with output constraint. <i>International Journal of Robust and Nonlinear Control</i> , 2021, 31, 7587.	2.1	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. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-10.	0.6	2
72	Fault tolerant flight-control via control allocation for reusable launch vehicles with aerodynamic control surfaces stuck. , 2016, , .		1

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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.	0.7	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.	1.3	1
76	Distributed Sliding Mode Fault-Tolerant LFC for Multiarea Interconnected Power Systems under Sensor Fault. Complexity, 2022, 2022, 1-14.	0.9	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.	2.4	0