

Mohammad Mehdi Arefi

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

974
citations

19
h-index

27
g-index

90
ext. papers

1,348
ext. citations

4.4
avg, IF

5.34
L-index

#	Paper	IF	Citations
78	Adaptive output feedback neural network control of uncertain non-affine systems with unknown control direction. <i>Journal of the Franklin Institute</i> , 2014 , 351, 4302-4316	4	76
77	On the neuro-adaptive feedback linearising control of underactuated autonomous underwater vehicles in three-dimensional space. <i>IET Control Theory and Applications</i> , 2015 , 9, 1264-1273	2.5	57
76	Adaptive Neural Stabilizing Controller for a Class of Mismatched Uncertain Nonlinear Systems by State and Output Feedback. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 1587-96	10.2	45
75	A fast iterative recursive least squares algorithm for Wiener model identification of highly nonlinear systems. <i>ISA Transactions</i> , 2017 , 67, 382-388	5.5	43
74	Fast Discrimination of Transformer Magnetizing Current From Internal Faults: An Extended Kalman Filter-Based Approach. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 110-118	4.3	42
73	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 49, 2340-2351	7.3	41
72	zSlices-Based General Type-2 Fuzzy Fusion of Support Vector Machines With Application to Bearing Fault Detection. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 7210-7217	8.9	38
71	A Novel Application of Deep Belief Networks in Learning Partial Discharge Patterns for Classifying Corona, Surface, and Internal Discharges. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 3277-3287	8.9	37
70	Adaptive neural output-feedback control for nonstrict-feedback time-delay fractional-order systems with output constraints and actuator nonlinearities. <i>Neural Networks</i> , 2018 , 105, 256-276	9.1	36
69	Nonlinear system identification based on Takagi-Sugeno fuzzy modeling and unscented Kalman filter. <i>ISA Transactions</i> , 2018 , 74, 134-143	5.5	35
68	Observer-based adaptive neural network control for a class of MIMO uncertain nonlinear time-delay non-integer-order systems with asymmetric actuator saturation. <i>Neural Computing and Applications</i> , 2017 , 28, 993-1010	4.8	25
67	Distributed neuro-adaptive control protocols for non-strict feedback non-linear MASs with input saturation. <i>IET Control Theory and Applications</i> , 2018 , 12, 1611-1620	2.5	25
66	Adaptive neural control for a class of uncertain non-affine nonlinear switched systems. <i>Nonlinear Dynamics</i> , 2016 , 83, 1773-1781	5	22
65	Nonlinear Model Predictive Speed Control of Electric Vehicles Represented by Linear Parameter Varying Models With Bias Terms. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 2081-2089	5.6	22
64	A Zeno-Free Event-Triggered Secondary Control for AC Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 1905-1916	10.7	22
63	Robust H _∞ sliding mode observer-based fault-tolerant control for One-sided Lipschitz nonlinear systems. <i>Asian Journal of Control</i> , 2019 , 21, 114-129	1.7	20
62	Observer-based adaptive robust control of nonlinear nonaffine systems with unknown gain sign. <i>Nonlinear Dynamics</i> , 2014 , 78, 2185-2194	5	20

61	Robust adaptive backstepping tracking control of stochastic nonlinear systems with unknown input saturation: A command filter approach. <i>International Journal of Robust and Nonlinear Control</i> , 2020 , 30, 3296-3313	3.6	19
60	Neuro-adaptive backstepping control of SISO non-affine systems with unknown gain sign. <i>ISA Transactions</i> , 2016 , 65, 199-209	5.5	19
59	Prescribed performance adaptive neural output control for a class of switched nonstrict-feedback nonlinear time-delay systems: State-dependent switching law approach. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 1734-1757	3.6	14
58	Neuro-adaptive command filter control of stochastic time-delayed nonstrict-feedback systems with unknown input saturation. <i>Journal of the Franklin Institute</i> , 2020 , 357, 7456-7482	4	14
57	Nonlinear generalized minimum variance control and control performance assessment of nonlinear systems based on a Wiener model. <i>Transactions of the Institute of Measurement and Control</i> , 2018 , 40, 1538-1553	1.8	14
56	Neuro observer-based control of pure feedback MIMO systems with unknown control direction. <i>IET Control Theory and Applications</i> , 2017 , 11, 213-224	2.5	14
55	Recursive generalized extended least squares and RML algorithms for identification of bilinear systems with ARMA noise. <i>ISA Transactions</i> , 2019 , 88, 50-61	5.5	14
54	Transformer Winding Faults Detection Based on Time Series Analysis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-10	5.2	13
53	Prescribed performance adaptive fuzzy dynamic surface control of nonaffine time-varying delayed systems with unknown control directions and dead-zone input. <i>International Journal of Adaptive Control and Signal Processing</i> , 2019 , 33, 1134-1156	2.8	12
52	Fuzzy-PSS and fuzzy neural network non-linear PI controller-based SSSC for damping inter-area oscillations. <i>Transactions of the Institute of Measurement and Control</i> , 2018 , 40, 733-745	1.8	12
51	Robust finite-time stabilizers for five-degree-of-freedom active magnetic bearing system. <i>Journal of the Franklin Institute</i> , 2019 , 356, 80-102	4	11
50	Adaptive dynamic surface control of a two-axis gimbal system. <i>IET Science, Measurement and Technology</i> , 2016 , 10, 607-613	1.5	10
49	Robust nonlinear control schemes for finite-time tracking objective of a 5-DOF robotic exoskeleton. <i>International Journal of Control</i> , 2019 , 92, 2178-2193	1.5	10
48	Wind Turbine Fault Diagnosis with Generative-Temporal Convolutional Neural Network 2019 ,		9
47	. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 3616-3625	7	9
46	Prescribed performance adaptive DSC for a class of time-delayed switched nonlinear systems in nonstrict-feedback form: Application to a two-stage chemical reactor. <i>Journal of Process Control</i> , 2020 , 89, 85-94	3.9	9
45	UKF-based soft sensor design for joint estimation of chemical processes with multi-sensor information fusion and infrequent measurements. <i>IET Science, Measurement and Technology</i> , 2018 , 12, 755-763	1.5	9
44	Analyzing the Vibration Signals for Bearing Defects Diagnosis Using the Combination of SGWT Feature Extraction and SVM. <i>IFAC-PapersOnLine</i> , 2018 , 51, 221-227	0.7	9

43	A solution for enhancement of transient performance in nonlinear adaptive control: Optimal adaptive reset based on barrier Lyapunov function. <i>ISA Transactions</i> , 2018 , 80, 169-175	5.5	8
42	Adaptive Robust Finite-Time Nonlinear Control of a Typical Autonomous Underwater Vehicle With Saturated Inputs and Uncertainties. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 1-1	5.5	8
41	Neural network controller design for fractional-order systems with input nonlinearities and asymmetric time-varying Pseudo-state constraints. <i>Chaos, Solitons and Fractals</i> , 2021 , 144, 110742	9.3	8
40	Observer-Based Sliding Mode Control for Path Tracking of a Spherical Robot. <i>Complexity</i> , 2018 , 2018, 1-15	1.6	8
39	A neuro-wavelet based approach for diagnosing bearing defects. <i>Advanced Engineering Informatics</i> , 2020 , 46, 101172	7.4	7
38	Designing a self-constructing fuzzy neural network controller for damping power system oscillations. <i>Fuzzy Sets and Systems</i> , 2019 , 356, 63-76	3.7	7
37	Non-linear Finite-Time Tracking Control of Uncertain Robotic Manipulators Using Time-Varying Disturbance Observer-Based Sliding Mode Method. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2022 , 104,	2.9	6
36	Optimal tracking control based on reinforcement learning value iteration algorithm for time-delayed nonlinear systems with external disturbances and input constraints. <i>Information Sciences</i> , 2021 , 554, 84-98	7.7	6
35	Virtual Sensors for Fault Diagnosis: A Case of Induction Motor Broken Rotor Bar. <i>IEEE Sensors Journal</i> , 2021 , 21, 5044-5051	4	6
34	Bearing fault detection based on interval type-2 fuzzy logic systems for support vector machines 2015 ,		5
33	Robust Finite-Time Stabilizers for a Connected Chain of Nonlinear Double-Integrator Systems. <i>IEEE Systems Journal</i> , 2019 , 13, 833-841	4.3	5
32	Wiener model based GMVC design considering sensor noise and delay. <i>ISA Transactions</i> , 2019 , 88, 73-81	5.5	5
31	Fast convergence to Nash equilibria without steady-state oscillation. <i>Systems and Control Letters</i> , 2019 , 123, 124-133	2.4	5
30	Event-Triggered Fuzzy Adaptive Leader-Following Tracking Control of Non-Affine Multi-Agent Systems with Finite-Time Output Constraint and Input Saturation. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 1-1	8.3	5
29	Extended state observer-based backstepping control for depth tracking of the underactuated AUV 2017 ,		4
28	Two novel robust nonlinear finite time control schemes for unmanned ship course system 2017 ,		4
27	Extended Kalman Filter-Based Approach for Nodal Pricing in Active Distribution Networks. <i>IEEE Systems Journal</i> , 2021 , 15, 487-496	4.3	4
26	Event-triggered voltage control of inverter-based microgrids 2018 ,		3

25	An Underactuated Bio-Inspired Helical Swimming Microrobot Using Fuzzy-PI Controller with Novel Error Detection Method for 5-DOF Micromanipulation. <i>Designs</i> , 2018 , 2, 18	1.8	3
24	Residualisation-based model order reduction in power networks with penetration of photovoltaic resources. <i>IET Generation, Transmission and Distribution</i> , 2019 , 13, 2619-2626	2.5	3
23	Low-cost home automation using Arduino and Modbus protocol 2017 ,		3
22	Neural minimal learning backstepping control of stochastic active suspension systems with hydraulic actuator saturation. <i>Journal of the Franklin Institute</i> , 2020 , 357, 13687-13706	4	3
21	DC Microgrid Energy Management System Containing Photovoltaic Sources Considering Supercapacitor and Battery Storages 2020 ,		3
20	Decentralized Robust Disturbance-Observer based LFC of Interconnected Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	3
19	Finite-Time Secure Dynamic State Estimation for Cyber-Physical Systems Under Unknown Inputs and Sensor Attacks. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-10	7.3	3
18	Prediction therapy outcomes of HCV patients treated with interferon/ribavirin. <i>Biomedical Signal Processing and Control</i> , 2018 , 45, 128-135	4.9	2
17	Prescribed Performance Quantized Tracking Control for a Class of Delayed Switched Nonlinear Systems With Actuator Hysteresis Using a Filter-Connected Switched Hysteretic Quantizer. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , PP,	10.3	2
16	Adaptive Neural Prescribed Performance DSC for Non-affine SISO Nonlinear Systems with External Disturbances. <i>IFAC-PapersOnLine</i> , 2018 , 51, 748-753	0.7	2
15	Design and implementation of an industrial generalized predictive controller on multivariable processes via programmable logic controllers 2015 ,		1
14	Design of Robust Finite-Time Nonlinear Controllers for a n-DOF Robot Manipulator Subjected to Dead-Zone Input Nonlinearities 2017 ,		1
13	Dual Extended Kalman Filter Reconstruction of Actuator and Sensor Faults in DC Microgrids with Constant Power Loads 2021 ,		1
12	Development of A Hybrid Method to Control the Grid-Connected PV Converter 2020 ,		1
11	Finite-time sliding mode control for a 3-DOF fully actuated autonomous surface vehicle. <i>Transactions of the Institute of Measurement and Control</i> , 2021 , 43, 371-389	1.8	1
10	Neuro-adaptive distributed output-feedback containment control for multiagent systems with nonstrict-feedback nonlinear dynamics and input constraints. <i>International Journal of Robust and Nonlinear Control</i> , 2021 , 31, 2465-2490	3.6	1
9	Control of an AUV with completely unknown dynamics and multi-asymmetric input constraints via off-policy reinforcement learning. <i>Neural Computing and Applications</i> , 1	4.8	1
8	Distributed Adaptive-Neural Finite-Time Consensus Control for Stochastic Nonlinear Multiagent Systems Subject to Saturated Inputs.. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022 , PP,	10.3	1

7	Robust neural network-based backstepping landing control of quadrotor on moving platform with stochastic noise. <i>International Journal of Robust and Nonlinear Control</i> , 2022 , 32, 2007-2026	3.6	1
6	Dual-EKF-Based Fault Tolerant Predictive Control of Nonlinear DC Microgrids with Actuator and Sensor Faults. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	1
5	An Ensemble-based Fuzzy Rough Active Learning Approach for Broken Rotor Bar Detection in Nonstationary Environment. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022 , 1-1	5.2	1
4	Real-Time Estimation Frameworks for Feeder-Level Load Disaggregation and PEVs Charging Behavior Characteristics Extraction. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	0
3	A Data-Driven Statistical Approach for Monitoring and Analysis of Large Industrial Processes. <i>IFAC-PapersOnLine</i> , 2019 , 52, 2354-2359	0.7	0
2	Extended state observer-based control of heartbeat described by heterogeneous coupled oscillator model. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 101, 105884	3.7	0
1	Practical finite-time adaptive sliding mode control for 5-link biped robot in the presence of uncertainty. <i>International Journal of Control</i> , 1-14	1.5	0