# Mohammad Mehdi Arefi

## List of Publications by Year in Descending Order

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|---|---|---|---|
| **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 | Non-linear Finite-Time Tracking Control of Uncertain Robotic Manipulators Using Time-Varying Disturbance Observer-Based Sliding Mode Method. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2022**, 104, | 2.9 | 6 |
| 77 | Distributed Adaptive-Neural Finite-Time Consensus Control for Stochastic Nonlinear Multiagent Systems Subject to Saturated Inputs.. *IEEE Transactions on Neural Networks and Learning Systems*, **2022**, PP, | 10.3 | 1 |
| 76 | Robust neural network-based backstepping landing control of quadrotor on moving platform with stochastic noise. *International Journal of Robust and Nonlinear Control*, **2022**, 32, 2007-2026 | 3.6 | 1 |
| 75 | Dual-EKF-Based Fault Tolerant Predictive Control of Nonlinear DC Microgrids with Actuator and Sensor Faults. *IEEE Transactions on Industry Applications*, **2022**, 1-1 | 4.3 | 1 |
| 74 | An Ensemble-based Fuzzy Rough Active Learning Approach for Broken Rotor Bar Detection in Nonstationary Environment. *IEEE Transactions on Instrumentation and Measurement*, **2022**, 1-1 | 5.2 | 1 |
| 73 | Dual Extended Kalman Filter Reconstruction of Actuator and Sensor Faults in DC Microgrids with Constant Power Loads **2021**, | | 1 |
| 72 | Real-Time Estimation Frameworks for Feeder-Level Load Disaggregation and PEVs Charging Behavior Characteristics Extraction. *IEEE Transactions on Industrial Informatics*, **2021**, 1-1 | 11.9 | 0 |
| 71 | Neural network controller design for fractional-order systems with input nonlinearities and asymmetric time-varying Pseudo-state constraints. *Chaos, Solitons and Fractals*, **2021**, 144, 110742 | 9.3 | 8 |
| 70 | Extended Kalman Filter-Based Approach for Nodal Pricing in Active Distribution Networks. *IEEE Systems Journal*, **2021**, 15, 487-496 | 4.3 | 4 |
| 69 | Optimal tracking control based on reinforcement learning value iteration algorithm for time-delayed nonlinear systems with external disturbances and input constraints. *Information Sciences*, **2021**, 554, 84-98 | 7.7 | 6 |
| 68 | Finite-time sliding mode control for a 3-DOF fully actuated autonomous surface vehicle. *Transactions of the Institute of Measurement and Control*, **2021**, 43, 371-389 | 1.8 | 1 |
| 67 | Transformer Winding Faults Detection Based on Time Series Analysis. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-10 | 5.2 | 13 |
| 66 | Event-Triggered Fuzzy Adaptive Leader-Following Tracking Control of Non-Affine Multi-Agent Systems with Finite-Time Output Constraint and Input Saturation. *IEEE Transactions on Fuzzy Systems*, **2021**, 1-1 | 8.3 | 5 |
| 65 | Decentralized Robust Disturbance-Observer based LFC of Interconnected Systems. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1 | 8.9 | 3 |
| 64 | Virtual Sensors for Fault Diagnosis: A Case of Induction Motor Broken Rotor Bar. *IEEE Sensors Journal*, **2021**, 21, 5044-5051 | 4 | 6 |
| 63 | Neuro-adaptive distributed output-feedback containment control for multiagent systems with nonstrict-feedback nonlinear dynamics and input constraints. *International Journal of Robust and Nonlinear Control*, **2021**, 31, 2465-2490 | 3.6 | 1 |
| 62 | Extended state observer-based control of heartbeat described by heterogeneous coupled oscillator model. *Communications in Nonlinear Science and Numerical Simulation*, **2021**, 101, 105884 | 3.7 | 0 |

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| 61 | Finite-Time Secure Dynamic State Estimation for Cyber-Physical Systems Under Unknown Inputs and Sensor Attacks. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-10 | 7.3 | 3 |
| 60 | Neuro-adaptive command filter control of stochastic time-delayed nonstrict-feedback systems with unknown input saturation. *Journal of the Franklin Institute*, **2020**, 357, 7456-7482 | 4 | 14 |
| 59 | Robust adaptive backstepping tracking control of stochastic nonlinear systems with unknown input saturation: A command filter approach. *International Journal of Robust and Nonlinear Control*, **2020**, 30, 3296-3313 | 3.6 | 19 |
| 58 | Prescribed performance adaptive DSC for a class of time-delayed switched nonlinear systems in nonstrict-feedback form: Application to a two-stage chemical reactor. *Journal of Process Control*, **2020**, 89, 85-94 | 3.9 | 9 |
| 57 | Neural minimal learning backstepping control of stochastic active suspension systems with hydraulic actuator saturation. *Journal of the Franklin Institute*, **2020**, 357, 13687-13706 | 4 | 3 |
| 56 | A neuro-wavelet based approach for diagnosing bearing defects. *Advanced Engineering Informatics*, **2020**, 46, 101172 | 7.4 | 7 |
| 55 | Development of A Hybrid Method to Control the Grid-Connected PV Converter **2020**, | | 1 |
| 54 | DC Microgrid Energy Management System Containing Photovoltaic Sources Considering Supercapacitor and Battery Storages **2020**, | | 3 |
| 53 | Prescribed Performance Quantized Tracking Control for a Class of Delayed Switched Nonlinear Systems With Actuator Hysteresis Using a Filter-Connected Switched Hysteretic Quantizer. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, PP, | 10.3 | 2 |
| 52 | Adaptive Robust Finite-Time Nonlinear Control of a Typical Autonomous Underwater Vehicle With Saturated Inputs and Uncertainties. *IEEE/ASME Transactions on Mechatronics*, **2020**, 1-1 | 5.5 | 8 |
| 51 | A Zeno-Free Event-Triggered Secondary Control for AC Microgrids. *IEEE Transactions on Smart Grid*, **2020**, 11, 1905-1916 | 10.7 | 22 |
| 50 | A Novel Application of Deep Belief Networks in Learning Partial Discharge Patterns for Classifying Corona, Surface, and Internal Discharges. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 3277-3287 | 8.9 | 37 |
| 49 | Wind Turbine Fault Diagnosis with Generative-Temporal Convolutional Neural Network **2019**, | | 9 |
| 48 | Prescribed performance adaptive neural output control for a class of switched nonstrict-feedback nonlinear time-delay systems: State-dependent switching law approach. *International Journal of Robust and Nonlinear Control*, **2019**, 29, 1734-1757 | 3.6 | 14 |
| 47 | Prescribed performance adaptive fuzzy dynamic surface control of nonaffine time-varying delayed systems with unknown control directions and dead-zone input. *International Journal of Adaptive Control and Signal Processing*, **2019**, 33, 1134-1156 | 2.8 | 12 |
| 46 | . *IEEE Transactions on Power Systems*, **2019**, 34, 3616-3625 | 7 | 9 |
| 45 | Robust $H_\infty$ sliding mode observer-based fault-tolerant control for One-sided Lipschitz nonlinear systems. *Asian Journal of Control*, **2019**, 21, 114-129 | 1.7 | 20 |
| 44 | Robust Finite-Time Stabilizers for a Connected Chain of Nonlinear Double-Integrator Systems. *IEEE Systems Journal*, **2019**, 13, 833-841 | 4.3 | 5 |

| 43 | . *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2019**, 49, 2340-2351 | 7.3 | 41 |
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| 42 | Residualisation-based model order reduction in power networks with penetration of photovoltaic resources. *IET Generation, Transmission and Distribution*, **2019**, 13, 2619-2626 | 2.5 | 3 |
| 41 | A Data-Driven Statistical Approach for Monitoring and Analysis of Large Industrial Processes. *IFAC-PapersOnLine*, **2019**, 52, 2354-2359 | 0.7 | 0 |
| 40 | Recursive generalized extended least squares and RML algorithms for identification of bilinear systems with ARMA noise. *ISA Transactions*, **2019**, 88, 50-61 | 5.5 | 14 |
| 39 | Wiener model based GMVC design considering sensor noise and delay. *ISA Transactions*, **2019**, 88, 73-81 | 5.5 | 5 |
| 38 | Robust finite-time stabilizers for five-degree-of-freedom active magnetic bearing system. *Journal of the Franklin Institute*, **2019**, 356, 80-102 | 4 | 11 |
| 37 | Fast convergence to Nash equilibria without steady-state oscillation. *Systems and Control Letters*, **2019**, 123, 124-133 | 2.4 | 5 |
| 36 | Nonlinear Model Predictive Speed Control of Electric Vehicles Represented by Linear Parameter Varying Models With Bias Terms. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2019**, 7, 2081-2089 | 5.6 | 22 |
| 35 | Robust nonlinear control schemes for finite-time tracking objective of a 5-DOF robotic exoskeleton. *International Journal of Control*, **2019**, 92, 2178-2193 | 1.5 | 10 |
| 34 | Designing a self-constructing fuzzy neural network controller for damping power system oscillations. *Fuzzy Sets and Systems*, **2019**, 356, 63-76 | 3.7 | 7 |
| 33 | Nonlinear system identification based on Takagi-Sugeno fuzzy modeling and unscented Kalman filter. *ISA Transactions*, **2018**, 74, 134-143 | 5.5 | 35 |
| 32 | Event-triggered voltage control of inverter-based microgrids **2018**, | | 3 |
| 31 | Fuzzy-PSS and fuzzy neural network non-linear PI controller-based SSSC for damping inter-area oscillations. *Transactions of the Institute of Measurement and Control*, **2018**, 40, 733-745 | 1.8 | 12 |
| 30 | Fast Discrimination of Transformer Magnetizing Current From Internal Faults: An Extended Kalman Filter-Based Approach. *IEEE Transactions on Power Delivery*, **2018**, 33, 110-118 | 4.3 | 42 |
| 29 | Nonlinear generalized minimum variance control and control performance assessment of nonlinear systems based on a Wiener model. *Transactions of the Institute of Measurement and Control*, **2018**, 40, 1538-1553 | 1.8 | 14 |
| 28 | A solution for enhancement of transient performance in nonlinear adaptive control: Optimal adaptive reset based on barrier Lyapunov function. *ISA Transactions*, **2018**, 80, 169-175 | 5.5 | 8 |
| 27 | An Underactuated Bio-Inspired Helical Swimming Microrobot Using Fuzzy-PI Controller with Novel Error Detection Method for 5-DOF Micromanipulation. *Designs*, **2018**, 2, 18 | 1.8 | 3 |
| 26 | UKF-based soft sensor design for joint estimation of chemical processes with multi-sensor information fusion and infrequent measurements. *IET Science, Measurement and Technology*, **2018**, 12, 755-763 | 1.5 | 9 |

| 25 | Prediction therapy outcomes of HCV patients treated with interferon/ribavirin. *Biomedical Signal Processing and Control*, **2018**, 45, 128-135 | 4.9 | 2 |
|----|----|----|----|
| 24 | Analyzing the Vibration Signals for Bearing Defects Diagnosis Using the Combination of SGWT Feature Extraction and SVM. *IFAC-PapersOnLine*, **2018**, 51, 221-227 | 0.7 | 9 |
| 23 | Adaptive Neural Prescribed Performance DSC for Non-affine SISO Nonlinear Systems with External Disturbances. *IFAC-PapersOnLine*, **2018**, 51, 748-753 | 0.7 | 2 |
| 22 | Observer-Based Sliding Mode Control for Path Tracking of a Spherical Robot. *Complexity*, **2018**, 2018, 1-15 | 1.6 | 8 |
| 21 | Adaptive neural output-feedback control for nonstrict-feedback time-delay fractional-order systems with output constraints and actuator nonlinearities. *Neural Networks*, **2018**, 105, 256-276 | 9.1 | 36 |
| 20 | Distributed neuro-adaptive control protocols for non-strict feedback non-linear MASs with input saturation. *IET Control Theory and Applications*, **2018**, 12, 1611-1620 | 2.5 | 25 |
| 19 | Observer-based adaptive neural network control for a class of MIMO uncertain nonlinear time-delay non-integer-order systems with asymmetric actuator saturation. *Neural Computing and Applications*, **2017**, 28, 993-1010 | 4.8 | 25 |
| 18 | zSlices-Based General Type-2 Fuzzy Fusion of Support Vector Machines With Application to Bearing Fault Detection. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 7210-7217 | 8.9 | 38 |
| 17 | A fast iterative recursive least squares algorithm for Wiener model identification of highly nonlinear systems. *ISA Transactions*, **2017**, 67, 382-388 | 5.5 | 43 |
| 16 | Design of Robust Finite-Time Nonlinear Controllers for a n-DOF Robot Manipulator Subjected to Dead-Zone Input Nonlinearities **2017**, | | 1 |
| 15 | Neuro observer-based control of pure feedback MIMO systems with unknown control direction. *IET Control Theory and Applications*, **2017**, 11, 213-224 | 2.5 | 14 |
| 14 | Low-cost home automation using Arduino and Modbus protocol **2017**, | | 3 |
| 13 | Extended state observer-based backstepping control for depth tracking of the underactuated AUV **2017**, | | 4 |
| 12 | Two novel robust nonlinear finite time control schemes for unmanned ship course system **2017**, | | 4 |
| 11 | Neuro-adaptive backstepping control of SISO non-affine systems with unknown gain sign. *ISA Transactions*, **2016**, 65, 199-209 | 5.5 | 19 |
| 10 | Adaptive neural control for a class of uncertain non-affine nonlinear switched systems. *Nonlinear Dynamics*, **2016**, 83, 1773-1781 | 5 | 22 |
| 9 | Adaptive dynamic surface control of a two-axis gimbal system. *IET Science, Measurement and Technology*, **2016**, 10, 607-613 | 1.5 | 10 |
| 8 | Bearing fault detection based on interval type-2 fuzzy logic systems for support vector machines **2015**, | | 5 |

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| 7 | Design and implementation of an industrial generalized predictive controller on multivariable processes via programmable logic controllers **2015**, | | 1 |
| 6 | Adaptive Neural Stabilizing Controller for a Class of Mismatched Uncertain Nonlinear Systems by State and Output Feedback. *IEEE Transactions on Cybernetics*, **2015**, 45, 1587-96 | 10.2 | 45 |
| 5 | On the neuro-adaptive feedback linearising control of underactuated autonomous underwater vehicles in three-dimensional space. *IET Control Theory and Applications*, **2015**, 9, 1264-1273 | 2.5 | 57 |
| 4 | Observer-based adaptive robust control of nonlinear nonaffine systems with unknown gain sign. *Nonlinear Dynamics*, **2014**, 78, 2185-2194 | 5 | 20 |
| 3 | Adaptive output feedback neural network control of uncertain non-affine systems with unknown control direction. *Journal of the Franklin Institute*, **2014**, 351, 4302-4316 | 4 | 76 |
| 2 | Control of an AUV with completely unknown dynamics and multi-asymmetric input constraints via off-policy reinforcement learning. *Neural Computing and Applications*,1 | 4.8 | 1 |
| 1 | Practical finite-time adaptive sliding mode control for 5-link biped robot in the presence of uncertainty. *International Journal of Control*,1-14 | 1.5 | 0 |