

Moosa Ayati

List of Publications by Year in Descending Order

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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.

65 papers	607 citations	12 h-index	22 g-index
79 ext. papers	871 ext. citations	2.8 avg, IF	4.96 L-index

#	Paper	IF	Citations
65	Intelligent Monitoring System Based on Noise-Assisted Multivariate Empirical Mode Decomposition Feature Extraction and Neural Networks.. <i>Computational Intelligence and Neuroscience</i> , 2022 , 2022, 26983498	2.498	0
64	Modeling and compensation of asymmetric rate-dependent hysteresis of a miniature pneumatic artificial muscle-based catheter. <i>Mechanical Systems and Signal Processing</i> , 2021 , 154, 107532	7.8	11
63	Developing and studying the dynamical behavior of a nonlinear mathematical model for cancers with tumor by considering immune system role. <i>International Journal of Biomathematics</i> , 2021 , 14, 2050058	1.8	58
62	Simultaneous fault diagnosis of wind turbine using multichannel convolutional neural networks. <i>ISA Transactions</i> , 2021 , 108, 230-239	5.5	15
61	Sub-optimal Estimation of HIV Time-delay Model using State-Dependent Impulsive Observer with Time-varying Impulse Interval: Application to Continuous-time and Impulsive Inputs. <i>Journal of Control</i> , 2021 , 15, 21-34	0.1	0
60	A Generalized Recursive Identification Algorithm Compensated by Orthogonal Weighted Kernel for Tracking Time-Variant Systems. <i>Circuits, Systems, and Signal Processing</i> , 2020 , 39, 4903-4929	2.2	1
59	Classification-Based Fuel Injection Fault Detection of a Trainset Diesel Engine Using Vibration Signature Analysis. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2020 , 142,	1.6	5
58	Adaptive prescribed-time disturbance observer using nonsingular terminal sliding mode control: Extended Kalman filter and particle swarm optimization. <i>IET Control Theory and Applications</i> , 2020 , 14, 3301-3311	2.5	6
57	Stabilization of nonlinear vibrations of carbon nanotubes using observer-based terminal sliding mode control. <i>Transactions of the Institute of Measurement and Control</i> , 2020 , 42, 1047-1058	1.8	28
56	Adaptive state-dependent impulsive observer design for nonlinear deterministic and stochastic dynamics with time-delays. <i>ISA Transactions</i> , 2020 , 98, 87-100	5.5	5
55	A computational approach to evaluate the nonlinear and noisy DC electrical response in carbon nanotube/polymer nanocomposites near the percolation threshold. <i>Computational Materials Science</i> , 2020 , 173, 109439	3.2	2
54	Development of a frequency-dependent constitutive model for hysteresis of shape memory alloys. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2020 , 234, 1535-1549	1.3	
53	Tracking control of an SMA-driven actuator with rate-dependent behavior using an inverse model of hysteresis. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020 , 42, 1	2	7
52	Finite-Time Disturbance-Observer-Based Integral Terminal Sliding Mode Controller for Three-Phase Synchronous Rectifier. <i>IEEE Access</i> , 2020 , 8, 152116-152130	3.5	11
51	A Simplified Model, Dynamic Analysis and Force Estimation for a Large-scale Orinhtopter in Forward Flight Based on Flight Data. <i>Journal of Bionic Engineering</i> , 2020 , 17, 989-1008	2.7	1
50	Development of a cascade position control system for an SMA-actuated rotary actuator with improved experimental tracking results. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019 , 41, 1	2	3
49	Robust sliding mode position control of a fast response SMA-actuated rotary actuator using temperature and strain feedback. <i>Sensors and Actuators A: Physical</i> , 2019 , 292, 158-168	3.9	8

48	Performance of Low-Cost Air-Data Sensors for Airspeed and Angle of Attack Measurements in a Flapping-Wing Robot. <i>Journal of Aerospace Engineering</i> , 2019 , 32, 04019018	1.4	1
47	Fault detection and diagnosis of a 12-cylinder trainset diesel engine based on vibration signature analysis and neural network. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019 , 233, 1910-1923	1.3	12
46	Finite time estimation of actuator faults, states, and aerodynamic load of a realistic wind turbine. <i>Renewable Energy</i> , 2019 , 130, 256-267	8.1	10
45	Robust actuator and sensor fault reconstruction of wind turbine using modified sliding mode observer. <i>Transactions of the Institute of Measurement and Control</i> , 2019 , 41, 1504-1518	1.8	16
44	Integral sliding mode control for nonlinear damped model of arch microbeams. <i>Microsystem Technologies</i> , 2019 , 25, 57-68	1.7	26
43	Design of Adaptive State-Dependent Impulsive Observer for Nonlinear Time-Delay Systems 2019 ,		1
42	Design of state-dependent impulsive observer for non-linear time-delay systems. <i>IET Control Theory and Applications</i> , 2019 , 13, 3155-3163	2.5	2
41	Impedance Control of a Knee Prosthesis with Frictional Torque Estimation 2019 ,		1
40	Terminal sliding mode observers for uncertain linear systems with matched disturbance. <i>Asian Journal of Control</i> , 2019 , 21, 377-386	1.7	4
39	Disturbance-observer-based fuzzy terminal sliding mode control for MIMO uncertain nonlinear systems. <i>Applied Mathematical Modelling</i> , 2019 , 70, 109-127	4.5	39
38	Magnetic resonance imaging-based brain tumor grades classification and grading via convolutional neural networks and genetic algorithms. <i>Biocybernetics and Biomedical Engineering</i> , 2019 , 39, 63-74	5.7	146
37	A fuzzy three-level clustering method for lifetime improvement of wireless sensor networks. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , 2018 , 73, 535-546	2	10
36	AC and DC electrical behavior of MWCNT/epoxy nanocomposite near percolation threshold: Equivalent circuits and percolation limits. <i>Journal of Applied Physics</i> , 2018 , 123, 105109	2.5	13
35	Experimental characterization and control of a magnetic shape memory alloy actuator using the modified generalized rate-dependent Prandtl-Bhlikinskii hysteresis model. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2018 , 232, 506-518	1	13
34	Dynamic modeling and nonlinear tracking control of a novel modified quadrotor. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 552-567	3.6	10
33	On the Development of Terminal Sliding Mode Observers 2018 ,		3
32	Optimization of Taylor spatial frame half-pins diameter for bone deformity correction: Application to femur. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2018 , 232, 673-681	1.7	7
31	Experiment-based hysteresis identification of a shape memory alloy-embedded morphing mechanism via stretched particle swarm optimization algorithm. <i>Journal of Intelligent Material Systems and Structures</i> , 2017 , 28, 2781-2792	2.3	8

30	Adaptive estimation of nonlinear parameters of a nonholonomic spherical robot using a modified fuzzy-based speed gradient algorithm. <i>Regular and Chaotic Dynamics</i> , 2017 , 22, 226-238	1.6	9
29	Three dimensional target tracking via Underwater Acoustic Wireless Sensor Network 2017 ,		10
28	State-dependent impulsive observer design for nonlinear time-delay systems 2017 ,		5
27	Development of myoelectric interface based on pattern recognition and regression based models 2016 ,		2
26	Chaos control in buck converter using fuzzy delayed-feedback controller 2016 ,		2
25	Analysis and fuzzy control of chaotic behaviors in buck converter 2016 ,		4
24	Chaos control of boost converter via the fuzzy delayed-feedback method 2016 ,		1
23	Fuzzy PSO-based algorithm for controlling base station movements in a wireless sensor network. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2016 , 24, 5068-5077	0.9	1
22	State Estimation of Stochastic Impulsive System Via Stochastic Adaptive Impulsive Observer. <i>Asian Journal of Control</i> , 2016 , 18, 514-526	1.7	5
21	Design of a novel three degrees of freedom ankle prosthesis inspired by human anatomy 2016 ,		1
20	Design and implementation of PI and fuzzy PID supervisory controllers for a flexible link robot 2016 ,		1
19	Fault detection and approximation for a class of linear impulsive systems using sliding-mode observer. <i>International Journal of Adaptive Control and Signal Processing</i> , 2015 , 29, 1427-1441	2.8	7
18	Three dimensional fuzzy carrot-chasing path following algorithm for fixed-wing vehicles 2015 ,		3
17	Estimation of elbow joint angle by NARX model using EMG data 2015 ,		6
16	Hysteresis modeling for a shape memory alloy actuator using adaptive neuro-fuzzy inference system 2015 ,		2
15	Second-order sliding mode fault-tolerant control of heat recovery steam generator boiler in combined cycle power plants. <i>Applied Thermal Engineering</i> , 2013 , 50, 1326-1338	5.8	31
14	Designing a Novel Adaptive Impulsive Observer for Nonlinear Continuous Systems Using LMIs. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2012 , 59, 179-187	3.9	19
13	Adaptive Fuzzy Control of Nonlinear in Parameters Uncertain Chaotic Systems Using Improved Speed Gradient Method. <i>Circuits, Systems, and Signal Processing</i> , 2012 , 31, 911-926	2.2	3

12	Maneuvering Target Tracking Method based on Unknown but Bounded Uncertainties. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 4290-4295		4
11	Synchronizing chaotic systems with parametric uncertainty via a novel adaptive impulsive observer. <i>Asian Journal of Control</i> , 2011 , 13, 809-817	1.7	12
10	Designing adaptive impulsive observer for a class of chaotic systems via linear matrix inequalities 2011 ,		1
9	Novel Approach for Nonlinear Maneuvering Target Tracking Based on Input Estimation. <i>Applied Mechanics and Materials</i> , 2011 , 110-116, 4415-4423	0.3	1
8	New scheme for discrete observer design with estimation error covariance assignment. <i>International Journal of Systems Science</i> , 2010 , 41, 1369-1381	2.3	3
7	Stable chaos synchronisation scheme for non-linear uncertain systems. <i>IET Control Theory and Applications</i> , 2010 , 4, 437-447	2.5	20
6	Adaptive control of nonlinear in parameters chaotic system via Lyapunov exponents placement. <i>Chaos, Solitons and Fractals</i> , 2009 , 41, 1980-1986	9.3	11
5	A stable adaptive synchronization scheme for uncertain chaotic systems via observer. <i>Chaos, Solitons and Fractals</i> , 2009 , 42, 2473-2483	9.3	15
4	Sensor fusion approach for shape estimation of a base-excited cantilever beam. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 095440622110046	1.3	
3	Bumpless stabilisation of uncertain switched positive linear systems under synchronous and asynchronous switching. <i>International Journal of Systems Science</i> , 1-12	2.3	0
2	Development of Hybrid Prandtl-Bhlikinskii and Constitutive Models for Hysteresis of Shape-Memory-Alloy-Driven Actuators. <i>Robotica</i> , 1-15	2.1	1
1	Fault-tolerant control of a rotary shape memory alloy actuator using a terminal sliding mode controller. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 095440622110467	1.3	