

# Mohammad Ali Badamchizadeh

## List of Publications by Year in descending order

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98  
papers

1,960  
citations

257101

24  
h-index

288905

40  
g-index

98  
all docs

98  
docs citations

98  
times ranked

1913  
citing authors

#	ARTICLE	IF	CITATIONS
1	Containment control of heterogeneous linear multi-agent systems. <i>Automatica</i> , 2015, 54, 210-216.	3.0	223
2	Adaptive fractional-order non-singular fast terminal sliding mode control for robot manipulators. <i>IET Control Theory and Applications</i> , 2016, 10, 1565-1572.	1.2	123
3	Fractional-Order Adaptive Backstepping Control of Robotic Manipulators in the Presence of Model Uncertainties and External Disturbances. <i>IEEE Transactions on Industrial Electronics</i> , 2016, 63, 6249-6256.	5.2	97
4	A new fractional-order sliding mode controller via a nonlinear disturbance observer for a class of dynamical systems with mismatched disturbances. <i>ISA Transactions</i> , 2016, 63, 39-48.	3.1	96
5	Artifacts removal in EEG signal using a new neural network enhanced adaptive filter. <i>Neurocomputing</i> , 2013, 103, 222-231.	3.5	83
6	Using Neural Network Model Predictive Control for Controlling Shape Memory Alloy-Based Manipulator. <i>IEEE Transactions on Industrial Electronics</i> , 2014, 61, 1394-1401.	5.2	77
7	Improved adaptive fuzzy sliding mode controller for robust fault tolerant of a Quadrotor. <i>International Journal of Control, Automation and Systems</i> , 2017, 15, 427-441.	1.6	64
8	Designing a new robust sliding mode controller for maximum power point tracking of photovoltaic cells. <i>Solar Energy</i> , 2016, 132, 538-546.	2.9	56
9	A New Self-Regulated Neuro-Fuzzy Framework for Classification of EEG Signals in Motor Imagery BCI. <i>IEEE Transactions on Fuzzy Systems</i> , 2018, 26, 1485-1497.	6.5	55
10	Adaptive Passivity-Based Control of a Photovoltaic/Battery Hybrid Power Source via Algebraic Parameter Identification. <i>IEEE Journal of Photovoltaics</i> , 2016, 6, 532-539.	1.5	51
11	PV Maximum Power-Point Tracking by Using Artificial Neural Network. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-10.	0.6	48
12	Real-time ocular artifacts removal of EEG data using a hybrid ICA-ANC approach. <i>Biomedical Signal Processing and Control</i> , 2017, 31, 199-210.	3.5	39
13	An adaptive method to parameter identification and synchronization of fractional-order chaotic systems with parameter uncertainty. <i>Applied Mathematical Modelling</i> , 2016, 40, 4468-4479.	2.2	38
14	Adaptive synchronization of chaotic systems with hysteresis quantizer input. <i>ISA Transactions</i> , 2020, 98, 137-148.	3.1	36
15	Robust adaptive finite-time stabilization control for a class of nonlinear switched systems based on finite-time disturbance observer. <i>Journal of the Franklin Institute</i> , 2021, 358, 3332-3352.	1.9	35
16	Adaptive containment control of nonlinear multi-agent systems with non-identical agents. <i>International Journal of Control</i> , 2015, 88, 1586-1593.	1.2	33
17	Optimal synchronization of two different incommensurate fractional-order chaotic systems with fractional cost function. <i>Complexity</i> , 2016, 21, 401-416.	0.9	29
18	Robust simultaneous finite-time control and fault detection for uncertain linear switched systems with time-varying delay. <i>IET Control Theory and Applications</i> , 2017, 11, 1041-1052.	1.2	29

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19	A class of type-2 fuzzy neural networks for nonlinear dynamical system identification. <i>Neural Computing and Applications</i> , 2013, 23, 707-717.	3.2	28
20	Second-order fuzzy sliding-mode control of photovoltaic power generation systems. <i>Solar Energy</i> , 2017, 149, 332-340.	2.9	28
21	EEG Artifacts Handling in a Real Practical Brain-Computer Interface Controlled Vehicle. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 1200-1208.	2.7	28
22	An approach to achieve modified projective synchronization between different types of fractional-order chaotic systems with time-varying delays. <i>Chaos, Solitons and Fractals</i> , 2015, 78, 95-106.	2.5	27
23	Designing an adaptive type-2 fuzzy logic system load frequency control for a nonlinear time-delay power system. <i>Applied Soft Computing Journal</i> , 2016, 43, 97-106.	4.1	27
24	Adaptive backstepping quantized control for a class of unknown nonlinear systems. <i>ISA Transactions</i> , 2022, 125, 146-155.	3.1	27
25	Floating search space: A new idea for efficient solving the Economic and emission dispatch problem. <i>Energy</i> , 2018, 158, 564-579.	4.5	26
26	Synchronization of different fractional order chaotic systems with time-varying parameter and orders. <i>ISA Transactions</i> , 2018, 80, 399-410.	3.1	26
27	Mobile robot path planning based on shuffled frog leaping optimization algorithm. , 2010, , .		23
28	Control of Overhead Crane System Using Adaptive Model-Free and Adaptive Fuzzy Sliding Mode Controllers. <i>Journal of Control, Automation and Electrical Systems</i> , 2015, 26, 1-15.	1.2	23
29	EE-CTA: Energy efficient, concurrent and topology-aware virtual network embedding as a multi-objective optimization problem. <i>Computer Standards and Interfaces</i> , 2019, 66, 103351.	3.8	22
30	Adaptive control for a class of nonlinear chaotic systems with quantized input delays. <i>Journal of the Franklin Institute</i> , 2020, 357, 254-278.	1.9	22
31	Real-time multiclass motor imagery brain-computer interface by modified common spatial patterns and adaptive neuro-fuzzy classifier. <i>Biomedical Signal Processing and Control</i> , 2020, 57, 101749.	3.5	18
32	Synchronization problem for a class of multi-input multi-output systems with terminal sliding mode control based on finite-time disturbance observer: Application to Chameleon chaotic system. <i>Chaos, Solitons and Fractals</i> , 2021, 150, 111191.	2.5	18
33	Chattering free full-order terminal sliding-mode control for maximum power point tracking of photovoltaic cells. <i>IET Renewable Power Generation</i> , 2017, 11, 85-91.	1.7	17
34	Surrounding control of nonlinear multi-agent systems with non-identical agents. <i>ISA Transactions</i> , 2017, 70, 219-227.	3.1	16
35	Adaptive fuzzy observer-based cooperative control of unknown fractional-order multi-agent systems with uncertain dynamics. <i>Soft Computing</i> , 2020, 24, 3737-3752.	2.1	16
36	Switched linear control of interleaved boost converters. <i>International Journal of Electrical Power and Energy Systems</i> , 2019, 109, 526-534.	3.3	15

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37	Adaptive Robust Control of Autonomous Underwater Vehicle. Journal of Control, Automation and Electrical Systems, 2016, 27, 250-262.	1.2	14
38	Discrete-time control of bilateral teleoperation systems: a review. Robotica, 2018, 36, 552-569.	1.3	14
39	Indirect predictive type-2 fuzzy neural network controller for a class of nonlinear input - delay systems. ISA Transactions, 2017, 71, 185-195.	3.1	13
40	A predictive controller based on dynamic matrix control for a non-minimum phase robot manipulator. International Journal of Control, Automation and Systems, 2012, 10, 574-581.	1.6	12
41	Robust simultaneous fault detection and control for a class of nonlinear stochastic switched delay systems under asynchronous switching. Journal of the Franklin Institute, 2017, 354, 4801-4825.	1.9	12
42	Hybrid Control of Single-Inductor Multiple-Output Converters. IEEE Transactions on Industrial Electronics, 2019, 66, 451-458.	5.2	12
43	Green virtual network embedding with supervised self-organizing map. Neurocomputing, 2019, 351, 60-76.	3.5	12
44	Intelligent model-based optimization of cutting parameters for high quality turning of hardened AISI D2. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2020, 34, 421-429.	0.7	11
45	Synchronization of different fractional-order chaotic systems using optimized active control. , 2015, , .		10
46	Fractional-order adaptive backstepping control of a class of uncertain systems with external disturbances. International Journal of Control, 2019, 92, 1344-1353.	1.2	10
47	Lyapunovâ€™Krasovskii stable T2FNN controller for a class of nonlinear time-delay systems. Soft Computing, 2019, 23, 1407-1419.	2.1	10
48	Modelling and control of flexible joint robot based on Takagiâ€™Sugeno fuzzy approach and its stability analysis via sum of squares. Mathematical and Computer Modelling of Dynamical Systems, 2013, 19, 250-262.	1.4	9
49	Designing of robust adaptive passivity-based controller based on reinforcement learning for nonlinear port-Hamiltonian model with disturbance. International Journal of Control, 2020, 93, 1754-1764.	1.2	9
50	Finite-time synchronization control for a class of perturbed nonlinear systems with fixed convergence time and hysteresis quantizer: applied to Genesisâ€™Tesi chaotic system. Nonlinear Dynamics, 2022, 107, 2327-2343.	2.7	9
51	Extended and Unscented Kalman Filtering Applied to a Flexible-Joint Robot with Jerk Estimation. Discrete Dynamics in Nature and Society, 2010, 2010, 1-14.	0.5	8
52	New approach to synchronization of two different fractional-order chaotic systems. , 2015, , .		8
53	Timeâ€™varying parameters identification and synchronization of switching complex networks using the adaptive fuzzyâ€™impulsive control with an application to secure communication. Asian Journal of Control, 2020, , .	1.9	8
54	Exponential stability of bilateral sampled-data teleoperation systems using multirate approach. ISA Transactions, 2020, 105, 190-197.	3.1	8

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55	Implementation of a Fuzzy TSK Controller for a Flexible Joint Robot. Discrete Dynamics in Nature and Society, 2012, 2012, 1-21.	0.5	7
56	A hierarchical fuzzy system for modeling driver's behavior. International Journal of Control, Automation and Systems, 2012, 10, 517-528.	1.6	7
57	Feedback error learning-based type-2 fuzzy neural network predictive controller for a class of nonlinear input delay systems. Transactions of the Institute of Measurement and Control, 2019, 41, 3651-3665.	1.1	7
58	Control of a class of fractional-order systems with mismatched disturbances via fractional-order sliding mode controller. Transactions of the Institute of Measurement and Control, 2020, 42, 2423-2439.	1.1	7
59	Type-2 fuzzy consensus control of nonlinear multi-agent systems: An LMI approach. Journal of the Franklin Institute, 2021, 358, 4326-4347.	1.9	7
60	A new adaptive neural network based observer for robotic manipulators. , 2015, , .		6
61	Design and implementation of neural controllers for shape memory alloy-actuated manipulator. Journal of Intelligent Material Systems and Structures, 2015, 26, 20-28.	1.4	6
62	Simultaneous fault detection and control for continuous-time linear switched delay systems under asynchronous switching. Transactions of the Institute of Measurement and Control, 2019, 41, 263-275.	1.1	6
63	Distributed adaptive switching control of uncertain switched affine multi-agent systems. Nonlinear Analysis: Hybrid Systems, 2020, 38, 100941.	2.1	6
64	Interconnection and damping assignment control based on modified actor-critic algorithm with wavelet function approximation. ISA Transactions, 2020, 101, 116-129.	3.1	6
65	Fuzzy Terminal Sliding Mode Control for Finite-time Synchronization of Electrostatic and Electromechanical Transducers. , 2020, , .		6
66	Ant-Inspired Fuzzily Deceptive Robots. IEEE Transactions on Fuzzy Systems, 2016, 24, 374-387.	6.5	5
67	Stability analysis and robust tracking control for a class of switched nonlinear systems with uncertain input delay. Transactions of the Institute of Measurement and Control, 2019, 41, 2053-2063.	1.1	5
68	Stability analysis and robust stabilisation for a class of switched nonlinear systems with input delay. International Journal of Control, 2020, 93, 2457-2468.	1.2	5
69	An ANFIS-PSO Algorithm for Predicting Four Grades of Non-Alcoholic Fatty Liver Disease. , 2020, , .		5
70	Low order harmonics elimination in multilevel inverters using fuzzy logic controller considering the variations of dc voltage sources. , 2011, , .		4
71	A new approach for designing robust adaptive fuzzy sliding mode controller. , 2013, , .		4
72	Evaluation criteria of biological artifacts removal rate from EEG signals. , 2014, , .		4

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73	Fuzzy-Based Impulsive Synchronization of Different Complex Networks with Switching Topology and Time-Varying Dynamic. International Journal of Fuzzy Systems, 2020, 22, 2565-2576.	2.3	4
74	Stability of nonlinear hybrid dynamical systems with time delay via sum of squares decomposition. International Journal of Control, Automation and Systems, 2009, 7, 331-339.	1.6	3
75	Optimization of data fusion method based on Kalman filter using Genetic Algorithm and Particle Swarm Optimization. , 2010, , .		3
76	Applying Modified Discrete Particle Swarm Optimization Algorithm and Genetic Algorithm for system identification. , 2010, , .		3
77	Application of Sliding-Mode Control for Maximum Power Point Tracking of PV Systems. Power Systems, 2019, , 25-43.	0.3	3
78	Switched Linear Control of Quadratic-Boost Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 2196-2203.	3.7	3
79	Fuzzy signaling game of deception between ant-inspired deceptive robots with interactive learning. Applied Soft Computing Journal, 2019, 75, 373-387.	4.1	3
80	Average Gene Method for increasing the convergence speed of discrete genetic algorithms. , 2010, , .		2
81	A control approach for five bar linkage manipulator based on imperialist competitive algorithm. , 2014, , .		2
82	Robust Tracking Control of a Class of Switched Nonlinear Systems With Input Delay Under Asynchronous Switching. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	0.9	2
83	Real-Time Cardiac Artifact Removal from EEG Using a Hybrid Approach. , 2018, , .		2
84	Secure Communication using the synchronization of time-varying complex networks by fuzzy impulsive method. , 2019, , .		2
85	Distributed min-projection control: A switching consensus protocol for switched affine multi-agent systems. JVC/Journal of Vibration and Control, 2022, 28, 17-29.	1.5	2
86	Tracking of Two Connected Inverted Pendulum on Carts by Using A Fast Terminal Sliding Mode Control with Fixed-time Convergence. , 2021, , .		2
87	Fuzzy Adaptive Sliding Mode Controller for A Chaotic System with Uncertainties and Disturbances. , 2020, , .		2
88	Stabilization Problem for a Class of Nonlinear MIMO Systems Based on Prescribed-Time Sliding Mode Control. Arabian Journal for Science and Engineering, 0, , .	1.7	2
89	Distributed control reconfiguration of nonlinear interconnected systems in the presence of actuator faults. International Journal of Robust and Nonlinear Control, 2022, 32, 7967-7986.	2.1	2
90	Designing of Adaptive Model-Free Controller Based on Output Error and Feedback Linearization. Abstract and Applied Analysis, 2013, 2013, 1-13.	0.3	1

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91	A modified technique for 3D camera calibration. , 2014, , .		1
92	A Systematic Design of Stabilizer Controller for Interval Type-2 TSK Fuzzy Logic Systems. Fuzzy Information and Engineering, 2018, 10, 387-407.	1.0	1
93	Adaptive passivity-based control for output voltage tracking of single-inductor dual-output buck converters. , 2018, , .		1
94	Continuous nonsingular terminal sliding mode control for mismatched uncertain nonlinear systems using algebraic parameter identification. , 2021, , .		1
95	A new control approach for a class of linear switched systems with time-varying delay. Transactions of the Institute of Measurement and Control, 2021, 43, 2213-2228.	1.1	1
96	Optimal Control for Stochastic 4D Hamiltonian Hyper-chaotic Systems with Periodic and Quasi-periodic Chaos. , 2020, , .		1
97	Finite-Time Control of a Parallelogram Five-Bar Manipulator Based on Fractional-Order Approach. , 2019, , .		0
98	Fuzzy Finite-time Consensus Control for Nonlinear Second-order Multi-agent Systems with Disturbances by Integral Sliding Mode. , 2021, , .		0