

# Farzad Hashemzadeh

## List of Publications by Year in descending order

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67  
papers

1,202  
citations

758635

12  
h-index

395343

33  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1163  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear disturbance observer design for robotic manipulators. <i>Control Engineering Practice</i> , 2013, 21, 253-267.	3.2	361
2	Colonial competitive algorithm. <i>International Journal of Intelligent Computing and Cybernetics</i> , 2008, 1, 337-355.	1.6	211
3	Prescribed performance distance-based formation control of Multi-Agent Systems. <i>Automatica</i> , 2020, 119, 109086.	3.0	98
4	Teleoperation in the presence of varying time delays and sandwich linearity in actuators. <i>Automatica</i> , 2013, 49, 2813-2821.	3.0	59
5	Position and force tracking in nonlinear teleoperation systems under varying delays. <i>Robotica</i> , 2015, 33, 1003-1016.	1.3	48
6	Finite-Time Rigidity-Based Formation Maneuvering of Multiagent Systems Using Distributed Finite-Time Velocity Estimators. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 4473-4484.	6.2	38
7	Position and force tracking in nonlinear teleoperation systems with sandwich linearity in actuators and time-varying delay. <i>Mechanical Systems and Signal Processing</i> , 2017, 86, 308-324.	4.4	35
8	Nonlinear trilateral teleoperation stability analysis subjected to time-varying delays. <i>Control Engineering Practice</i> , 2016, 56, 123-135.	3.2	34
9	A new robust observer-based adaptive type-2 fuzzy control for a class of nonlinear systems. <i>Applied Soft Computing Journal</i> , 2015, 37, 204-216.	4.1	30
10	Designing MIMO PIID controller using colonial competitive algorithm: Applied to distillation column process. , 2008, , .		28
11	Adaptive Control for State Synchronization of Nonlinear Haptic Telerobotic Systems with Asymmetric Varying Time Delays. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2012, 68, 245-259.	2.0	24
12	Dual-user nonlinear teleoperation subjected to varying time delay and bounded inputs. <i>ISA Transactions</i> , 2017, 68, 33-47.	3.1	20
13	Surrounding control of nonlinear multi-agent systems with non-identical agents. <i>ISA Transactions</i> , 2017, 70, 219-227.	3.1	16
14	Stability analysis of the linear discrete teleoperation systems with stochastic sampling and data dropout. <i>European Journal of Control</i> , 2018, 41, 63-71.	1.6	12
15	A cooperative paradigm for task-space control of multilateral nonlinear teleoperation with bounded inputs and time-varying delays. <i>Mechatronics</i> , 2019, 62, 102255.	2.0	12
16	An adaptive robust control scheme for robot manipulators with unknown backlash nonlinearity in gears. <i>Transactions of the Institute of Measurement and Control</i> , 2019, 41, 2789-2802.	1.1	12
17	Task-space synchronisation of nonlinear teleoperation with time-varying delays and actuator saturation. <i>International Journal of Control</i> , 2020, 93, 1328-1344.	1.2	12
18	Finite-time-estimation-based surrounding control for a class of unknown nonlinear multi-agent systems. <i>Nonlinear Dynamics</i> , 2019, 96, 1795-1804.	2.7	11

#	ARTICLE	IF	CITATIONS
19	Decentralized switched model-based predictive control for distributed large-scale systems with topology switching. <i>Nonlinear Analysis: Hybrid Systems</i> , 2020, 38, 100912.	2.1	11
20	Controlled Synchronization of Nonlinear Teleoperation in Task-space with Time-varying Delays. <i>International Journal of Control, Automation and Systems</i> , 2019, 17, 1875-1883.	1.6	10
21	Leader-Follower Fixed-Time Consensus for Multi-agent Systems with Heterogeneous Non-linear Inherent Dynamics. , 2016, , .		9
22	Optimal L1 control for linear time-delayed systems using GSA algorithm. , 2016, , .		8
23	Exponential stability of bilateral sampled-data teleoperation systems using multirate approach. <i>ISA Transactions</i> , 2020, 105, 190-197.	3.1	8
24	Scaled Consensus Tracking Under Constant Time Delay. <i>IFAC-PapersOnLine</i> , 2016, 49, 240-243.	0.5	7
25	Performance tuning for robot manipulators using intelligent robust controller. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2011, 225, 385-392.	0.7	6
26	A New Method for Bilateral Teleoperation Passivity under Varying Time Delays. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-19.	0.6	6
27	A new adaptive neural network based observer for robotic manipulators. , 2015, , .		6
28	Event-triggered surrounding adaptive control of nonlinear multi-agent systems. <i>ISA Transactions</i> , 2022, 128, 44-57.	3.1	6
29	On distance-based formation control: A nonlinear mapping approach and its applications. , 2017, , .		5
30	A New Fractional-order Control Method for Robust Synchronization Between Fractional-order Uncertain Permanent Magnet Synchronous Motors. , 2019, , .		5
31	Control for Leader-Follower Consensus of Multi-agent Systems with Actuator Faults Using Decentralized Robust Fault-tolerant Control. <i>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</i> , 2021, 45, 529-541.	1.5	5
32	Delay-Robust Nonlinear Control of Bounded-Input Telerobotic Systems With Synchronization Enhancement. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 2493-2500.	3.3	5
33	Semi-Global Enlargement of Domain of Attraction for a Class of Affine Nonlinear Systems. , 2006, , .		5
34	Adaptive control of nonlinear teleoperation systems with varying asymmetric time delays. , 2012, , .		4
35	Consensus Control of Hierarchical Multi-agent Systems with Constant and Time-Varying Delays. <i>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</i> , 2018, 42, 479-484.	1.5	4
36	Robust stabilization of discrete-time switched systems with state delay and parametric uncertainty via model predictive control approach. , 2019, , .		4

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37	Optimal active suspension control based on a quarter-car model: an analytical solution. International Journal of Vehicle Safety, 2010, 5, 1.	0.2	3
38	Sensitivity analysis of the bullwhip effect in supply chains with time delay. International Journal of Systems Science: Operations and Logistics, 2023, 10, .	2.0	3
39	Distributed fault tolerant control and estimation for leader-follower consensus of multi-agent systems with actuator faults. , 2017, , .		2
40	Adaptive surrounding control for linear multi-agent systems with unknown disturbance. IOP Conference Series: Materials Science and Engineering, 2018, 361, 012024.	0.3	2
41	Robust Finite-Time Contractive Fault Tolerant Control of Uncertain Nonlinear Network-Based Systems with Adaptive Event-Triggered Communication Scheme. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2022, 46, 141-155.	1.5	2
42	Robust event-triggered finite-time control of faulty networked flexible manipulator under external disturbance. JVC/Journal of Vibration and Control, 0, , 107754632110470.	1.5	2
43	Semi-global enlargement of domain of attraction for a class of affine nonlinear systems. , 2006, , .		1
44	Mixture weighted gating and its application to target tracking. , 2006, , .		1
45	A New Fractional Order Hold and Its Capability in Frequency Response and Zero Placement. Journal of Applied Mathematics, 2013, 2013, 1-7.	0.4	1
46	State feedback time-optimal controller for linear systems with input delay. , 2015, , .		1
47	Time Optimal Control and Switching Curve Analysis for Caputo Fractional Systems. , 2016, , .		1
48	An analytical eigenvalue assignment of linear time-delay systems using Lambert W function. , 2017, , .		1
49	Position and velocity synchronization in bilateral teleoperation in presence of stochastic disturbances in control inputs. , 2017, , .		1
50	Scaled Consensus of Multi-agent Systems under Time Delay. , 2018, , .		1
51	Novel sliding mode controller for power control of a doubly fed induction generator in variable speed wind turbine. , 2019, , .		1
52	Task-Space Position and Containment Control of Redundant Manipulators with Bounded Inputs. , 2019, , .		1
53	Extended hybrid control scheme for asynchronous switching. Journal of the Franklin Institute, 2021, 358, 1693-1714.	1.9	1
54	Further enhancement on $H_\infty$ sliding mode control design for singular Markovian jump systems with partly known transition probabilities. JVC/Journal of Vibration and Control, 2022, 28, 1187-1199.	1.5	1

#	ARTICLE	IF	CITATIONS
55	Observer-based controller design for a class of networked control systems with transmission delays and packet losses. , 2021, , .		1
56	Asymmetrical Gating with Application on Maneuvering Target Tracking. Applied Computational Intelligence and Soft Computing, 2012, 2012, 1-8.	1.6	0
57	Controller design to enlarge the domain of attraction for a class of nonlinear systems. , 2017, , .		0
58	Delay-independent Li controller for linear systems with time-varying delay. , 2017, , .		0
59	Controller design to enlarge the domain of attraction for a class of nonlinear systems. , 2017, , .		0
60	Hybrid driven based robust stabilization for networked control systems. , 2017, , .		0
61	An Optimized Controller for Region of Attraction Enlargement of Underactuated Systems Using Impulse Manifold Method. , 2018, , .		0
62	A new observer based Robust output feedback Controller on Coaxial Tri-copter. , 2019, , .		0
63	Economic Model Predictive Controller Design with a New Cost Function for Linear Systems. , 2021, , .		0
64	Robust stabilization of a class of switched nonlinear systems with time-varying delay and parametric uncertainty under asynchronous switching. , 2020, , .		0
65	Evaluation of efficiency of membrane submerged reactor (MSR) in water treatment using ferric chloride (FeCl <sub>3</sub> ) coagulant with flocculation agents of polyelectrolyte and lime (CaO). , 0, 231, 315-328.		0
66	The Effect of Observer Position on Networked Control Systems with Random Transmission Delays and Packet Dropouts. , 2022, , .		0
67	Consensus Tracking of Multi-Agent Systems in The Presence of Byzantine Agents Using Model Predictive Control. , 2022, , .		0