Alireza Izadbakhsh

List of Publications by Year
in descending order

44 papers	720 citations	516215 16 h-index	610482 24 g-index
45 all docs	45 docs citations	45 times ranked	273 citing authors

#	Article	IF	Citations
1	Robust control design for rigid-link flexible-joint electrically driven robot subjected to constraint: theory and experimental verification. Nonlinear Dynamics, 2016, 85, 751-765.	2.7	56
2	FAT-based robust adaptive control of electrically driven robots without velocity measurements. Nonlinear Dynamics, 2017, 89, 289-304.	2.7	53
3	Robust adaptive impedance control of robot manipulators using SzÃ¡szâ€"Mirakyan operator as universal approximator. ISA Transactions, 2020, 106, 1-11.	3.1	42
4	Robust task-space control of robot manipulators using differential equations for uncertainty estimation. Robotica, 2017, 35, 1923-1938.	1.3	36
5	Robust adaptive control of robot manipulators using Bernstein polynomials as universal approximator. International Journal of Robust and Nonlinear Control, 2020, 30, 2719-2735.	2.1	34
6	A robust anti-windup control design for electrically driven robots â€" Theory and experiment. International Journal of Control, Automation and Systems, 2011, 9, 1005-1012.	1.6	33
7	Real-time robust adaptive control of robots subjected to actuator voltage constraint. Nonlinear Dynamics, 2014, 78, 1999-2014.	2.7	30
8	Endpoint perfect tracking control of robots â€" A robust non inversion-based approach. International Journal of Control, Automation and Systems, 2009, 7, 888-898.	1.6	29
9	Robust impedance control of robot manipulators using differential equations as universal approximator. International Journal of Control, 2018, 91, 2170-2186.	1.2	26
10	A note on the â€œnonlinear control of electrical flexible-joint robotsâ€. Nonlinear Dynamics, 2017, 89, 2753-2767.	2.7	25
11	Robust Lyapunov-Based Control of Flexible-Joint Robots Using Voltage Control Strategy. Arabian Journal for Science and Engineering, 2014, 39, 3111-3121.	1.1	23
12	FAT-Based Robust Adaptive Control of Electrically Driven Robots in Interaction with Environment. Robotica, 2019, 37, 779-800.	1.3	22
13	<scp>SzÃ¡szâ€"Mirakyan</scp>â€‑based adaptive controller design for chaotic synchronization. International Journal of Robust and Nonlinear Control, 2021, 31, 1689-1703.	2.1	22
14	Observer-based adaptive fractional-order control of flexible-joint robots using the Fourier series expansion: theory and experiment. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	21
15	Adaptive fractional-order control of electrical flexible-joint robots: Theory and experiment. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2019, 233, 1136-1145.	0.7	20
16	Tracking Control of Electrically Driven Robots Using a Model-free Observer. Robotica, 2019, 37, 729-755.	1.3	19
17	Observer-based adaptive control for HIV infection therapy using the Baskakov operator. Biomedical Signal Processing and Control, 2021, 65, 102343.	3.5	18
18	Chaos synchronization using differential equations as extended state observer. Chaos, Solitons and Fractals, 2021, 153, 111433.	2.5	16

#	Article	IF	Citations
19	Robust Adaptive Control of Over-Constrained Actuated Cable-Driven Parallel Robots. Mechanisms and Machine Science, 2019, , 209-220.	0.3	15
20	FAT-based robust adaptive control of flexible-joint robots: Singular perturbation approach. , 2017, , .		14
21	An alternative stability proof for â€œAdaptive type-2 fuzzy estimation of uncertainties in the control of electrically flexible-joint robotsâ€. JVC/Journal of Vibration and Control, 2019, 25, 977-983.	1.5	13
22	On the Voltage-based Control of Robot Manipulators Revisited. International Journal of Control, Automation and Systems, 2018, 16, 1887-1894.	1.6	12
23	Single-loop PID controller design for electrical flexible-joint robots. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	12
24	Robust control methodologies for optical micro electro mechanical system - new approaches and comparison. , 2008, , .		11
25	Closed-form dynamic model of PUMA 560 robot arm. , 2009, , .		11
26	Polynomial-Based Robust Adaptive Impedance Control of Electrically Driven Robots. Robotica, 2021, 39, 1181-1201.	1.3	11
27	Nonlinear PID control of electrical flexible joint robots-Theory and experimental verification. , 2018, , .		10
28	Robust adaptive controllerâ€"observer scheme for robot manipulators: a Bernsteinâ€"Stancu approach. Robotica, 2022, 40, 1309-1325.	1.3	10
29	FAT-based robust adaptive control of cooperative multiple manipulators without velocity measurement. Robotica, 2022, 40, 1732-1762.	1.3	9
30	Neural control of robot manipulators considering motor voltage saturation: performance evaluation and experimental validation. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2021, 40, 27-29.	0.5	8
31	Cooperative and robust object handling by multiple manipulators based on the differential equation approximator. ISA Transactions, 2022, 128, 68-80.	3.1	8
32	Effects of Channel Dimension and Doping Concentration of Source and Drain Contacts on GNRFET Performance. Silicon, 2021, 13, 3337-3350.	1.8	7
33	An observer-based output tracking controller for electrically driven cooperative multiple manipulators with adaptive Bernstein-type approximator. Robotica, 2022, 40, 2295-2319.	1.3	7
34	Multi-stage CMOS amplifier frequency compensation using a single MOSCAP. Analog Integrated Circuits and Signal Processing, 2020, 103, 237-246.	0.9	6
35	A note on the â€˜task-space control of robots using an adaptive Taylor series uncertainty estimatorâ€™. International Journal of Control, 2021, 94, 722-723.	1.2	6
36	Observerâ€based adaptive control of cooperative multiple manipulators using the Mastroianni operators as uncertainty approximator. International Journal of Robust and Nonlinear Control, 2022, 32, 3625-3646.	2.1	6

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37	Observerâ€based adaptive controller design for chaos synchronization using Bernsteinâ€type operators. International Journal of Robust and Nonlinear Control, 2022, 32, 4318-4335.	2.1	4
38	FAT-based robust adaptive controller design for electrically direct-driven robots using Phillips q-Bernstein operators. Robotica, 0, , 1-20.	1.3	4
39	Robust adaptive control of cooperative multiple manipulators based on the Stancuâ€"Chlodowsky universal approximator. Communications in Nonlinear Science and Numerical Simulation, 2022, 111, 106471.	1.7	4
40	Recurrent neural network based second order sliding mode control of redundant robot manipulators. , 2018, , .		3
41	Single-loop versus multi-loop control strategies for electrically driven robots with elastic joint. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	3
42	Chaos synchronization using q-Chlodowsky operators as uncertainty approximator. JVC/Journal of Vibration and Control, 2023, 29, 4107-4117.	1.5	1
43	An alternative stability proof for robust control of electrically driven robots using adaptive uncertainty estimation. Computers and Electrical Engineering, 2019, 78, 63-68.	3.0	0
44	A note on â€œFractional-order adaptive backstepping control of robotic manipulators in the presence of model uncertainties and external disturbancesâ€. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	0