

Amin Nikoobin

List of Publications by Year in descending order

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548
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#	ARTICLE	IF	CITATIONS
1	Lyapunov-Based Nonlinear Disturbance Observer for Serial n-Link Robot Manipulators. Journal of Intelligent and Robotic Systems: Theory and Applications, 2009, 55, 135-153.	3.4	103
2	Mathematical modeling and trajectory planning of mobile manipulators with flexible links and joints. Applied Mathematical Modelling, 2012, 36, 3229-3244.	4.2	67
3	Path Planning of Mobile Elastic Robotic Arms by Indirect Approach of Optimal Control. International Journal of Advanced Robotic Systems, 2011, 8, 10.	2.1	49
4	Maximum load carrying capacity of mobile manipulators: optimal control approach. Robotica, 2009, 27, 147-159.	1.9	47
5	Maximum load-carrying capacity of autonomous mobile manipulator in an environment with obstacle considering tip over stability. International Journal of Advanced Manufacturing Technology, 2010, 46, 811-829.	3.0	46
6	Trajectory optimization of flexible link manipulators in point-to-point motion. Robotica, 2009, 27, 825-840.	1.9	41
7	Deriving and analyzing the effective parameters in microgrippers performance. Scientia Iranica, 2012, 19, 1554-1563.	0.4	40
8	Maximum payload for flexible joint manipulators in point-to-point task using optimal control approach. International Journal of Advanced Manufacturing Technology, 2008, 38, 1045-1060.	3.0	39
9	Maximum payload path planning for redundant manipulator using indirect solution of optimal control problem. International Journal of Advanced Manufacturing Technology, 2009, 44, 725-736.	3.0	37
10	Maximum allowable dynamic load of flexible mobile manipulators using finite element approach. International Journal of Advanced Manufacturing Technology, 2008, 36, 1010-1021.	3.0	24
11	Optimal balancing of robot manipulators in point-to-point motion. Robotica, 2011, 29, 233-244.	1.9	21
12	Maximum allowable dynamic load of flexible mobile manipulators using finite element approach. International Journal of Advanced Manufacturing Technology, 2008, 36, 606-617.	3.0	18
13	Indirect solution of optimal control problems with state variable inequality constraints: finite difference approximation. Robotica, 2017, 35, 50-72.	1.9	15
14	Photoelastic study of a center-cracked plate – The lateral load effects. Computational Materials Science, 2007, 41, 168-176.	3.0	13
15	Optimal spring balancing of robot manipulators in point-to-point motion. Robotica, 2013, 31, 611-621.	1.9	10
16	Analysis of Optimal Dynamic Manipulation for Robotic Manipulator Based on Pontryagin's Minimum Principle. Arabian Journal for Science and Engineering, 2020, 45, 9159-9169.	3.0	10
17	Indirect optimal trajectory planning of robotic manipulators with the homotopy continuation technique. , 2014, , .		7
18	Determining maximum load carrying capacity of planar flexible-link robot: closed-loop approach. Robotica, 2010, 28, 959-973.	1.9	6

#	ARTICLE	IF	CITATIONS
19	Analysis of Optimal Balancing for Robotic Manipulators in Repetitive Motions. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	1.6	5
20	Zero-power balancing a two-link robot manipulator for a predefined point-to-point task. Journal of Mechanical Science and Technology, 2020, 34, 2585-2595.	1.5	5
21	Optimal Balancing of the Robotic Manipulators. , 2016, , 337-363.		4
22	Design and Fabrication a Long-Gripping-Range Microgripper with Active and Passive Actuators. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2019, 43, 575-585.	1.3	4
23	Maximum allowable dynamic load of flexible manipulators with imposing residual vibration constraint. , 2007, , .		3
24	Optimal balancing of planar cable robot in point to point motion using the indirect approach. , 2015, , .		3
25	Modeling and Stability Analysis of Aerially Towed Systems Using Geometric Computational Dynamics. Journal of Guidance, Control, and Dynamics, 2020, 43, 73-84.	2.8	3
26	Perfect Torque Compensation of Planar 5R Parallel Robot in Point-to-Point Motions, Optimal Control Approach. Robotica, 2021, 39, 1163-1180.	1.9	3
27	A variational approach to determination of maximum throw-able workspace of robotic manipulators in optimal ball pitching motion. Transactions of the Institute of Measurement and Control, 2021, 43, 2378-2391.	1.7	3
28	Analysis of Four Wheeled Flexible Joint Robotic Arms with Application on Optimal Motion Design. Studies in Computational Intelligence, 2009, , 107-116.	0.9	3
29	Optimal Motion Planning of Manipulators With Elastic Links and Joints in Generalized Point-to-Point Task. , 2009, , .		2
30	Describing the effective parameters in grippers, and designing the novel micro-nano gripper. , 2011, , .		2
31	High-fidelity hardware-in-loop simulation of tethered-wings based on discrete-time mechanics. Mechanism and Machine Theory, 2020, 151, 103909.	4.5	2
32	Parameter identification of nonlinear systems using indirect solution of optimal control problem. , 2015, , .		1
33	Numerical simulation of tetheredâ€“wing power systems based on variational integration. Journal of Computational Science, 2021, 51, 101351.	2.9	1