

Amin Nikoobin

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Perfect Torque Compensation of Planar 5R Parallel Robot in Point-to-Point Motions, Optimal Control Approach. <i>Robotica</i> , 2021, 39, 1163-1180.	1.9	3
2	Numerical simulation of tetheredâ€“wing power systems based on variational integration. <i>Journal of Computational Science</i> , 2021, 51, 101351.	2.9	1
3	A variational approach to determination of maximum throw-able workspace of robotic manipulators in optimal ball pitching motion. <i>Transactions of the Institute of Measurement and Control</i> , 2021, 43, 2378-2391.	1.7	3
4	Modeling and Stability Analysis of Aerially Towed Systems Using Geometric Computational Dynamics. <i>Journal of Guidance, Control, and Dynamics</i> , 2020, 43, 73-84.	2.8	3
5	High-fidelity hardware-in-loop simulation of tethered-wings based on discrete-time mechanics. <i>Mechanism and Machine Theory</i> , 2020, 151, 103909.	4.5	2
6	Zero-power balancing a two-link robot manipulator for a predefined point-to-point task. <i>Journal of Mechanical Science and Technology</i> , 2020, 34, 2585-2595.	1.5	5
7	Analysis of Optimal Dynamic Manipulation for Robotic Manipulator Based on Pontryaginâ€™s Minimum Principle. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 9159-9169.	3.0	10
8	Design and Fabrication a Long-Gripping-Range Microgripper with Active and Passive Actuators. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2019, 43, 575-585.	1.3	4
9	Analysis of Optimal Balancing for Robotic Manipulators in Repetitive Motions. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2018, 140, .	1.6	5
10	Indirect solution of optimal control problems with state variable inequality constraints: finite difference approximation. <i>Robotica</i> , 2017, 35, 50-72.	1.9	15
11	Optimal Balancing of the Robotic Manipulators. , 2016, , 337-363.		4
12	Optimal balancing of planar cable robot in point to point motion using the indirect approach. , 2015, , .		3
13	Parameter identification of nonlinear systems using indirect solution of optimal control problem. , 2015, , .		1
14	Indirect optimal trajectory planning of robotic manipulators with the homotopy continuation technique. , 2014, , .		7
15	Optimal spring balancing of robot manipulators in point-to-point motion. <i>Robotica</i> , 2013, 31, 611-621.	1.9	10
16	Deriving and analyzing the effective parameters in microgrippers performance. <i>Scientia Iranica</i> , 2012, 19, 1554-1563.	0.4	40
17	Mathematical modeling and trajectory planning of mobile manipulators with flexible links and joints. <i>Applied Mathematical Modelling</i> , 2012, 36, 3229-3244.	4.2	67
18	Describing the effective parameters in grippers, and designing the novel micro-nano gripper. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
19	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
20	Optimal balancing of robot manipulators in point-to-point motion. Robotica, 2011, 29, 233-244.	1.9	21
21	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
22	Determining maximum load carrying capacity of planar flexible-link robot: closed-loop approach. Robotica, 2010, 28, 959-973.	1.9	6
23	Maximum load carrying capacity of mobile manipulators: optimal control approach. Robotica, 2009, 27, 147-159.	1.9	47
24	Trajectory optimization of flexible link manipulators in point-to-point motion. Robotica, 2009, 27, 825-840.	1.9	41
25	Optimal Motion Planning of Manipulators With Elastic Links and Joints in Generalized Point-to-Point Task. , 2009, , .		2
26	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
27	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
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	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
30	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
31	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
32	Photoelastic study of a center-cracked plate â€œ The lateral load effects. Computational Materials Science, 2007, 41, 168-176.	3.0	13
33	Maximum allowable dynamic load of flexible manipulators with imposing residual vibration constraint. , 2007, , .		3