Borna Ghannadi

List of Publications by Year
in descending order

14 papers	160 citations	1478505 6 h-index	1588992 8 g-index
14 all docs	14 docs citations	14 times ranked	127 citing authors

#	Article	IF	Citations
1	A review of simulation methods for human movement dynamics with emphasis on gait. Multibody System Dynamics, 2019, 47, 265-292.	2.7	38
2	Predictive Simulation of Reaching Moving Targets Using Nonlinear Model Predictive Control. Frontiers in Computational Neuroscience, 2016, 10, 143.	2.1	35
3	Feedback Control of Functional Electrical Stimulation for 2-D Arm Reaching Movements. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 2033-2043.	4.9	26
4	Nonlinear model predictive control of an upper extremity rehabilitation robot using a two-dimensional human-robot interaction model. , 2017, , .		14
5	Comparison of direct collocation optimal control to trajectory optimization for parameter identification of an ellipsoidal foot–ground contact model. Multibody System Dynamics, 2020, 49, 71-93.	2.7	12
6	A Synergy-Based Motor Control Framework for the Fast Feedback Control of Musculoskeletal Systems. Journal of Biomechanical Engineering, 2019, 141, .	1.3	7
7	A modified homotopy optimization for parameter identification in dynamic systems with backlash discontinuity. Nonlinear Dynamics, 2019, 95, 57-72.	5.2	7
8	Configuration-Dependent Optimal Impedance Control of an Upper Extremity Stroke Rehabilitation Manipulandum. Frontiers in Robotics and AI, 2018, 5, 124.	3.2	6
9	Feedback control of functional electrical stimulation for arbitrary upper extremity movements. , 2017, 2017, 1451-1456.		5
10	Upper Extremity Rehabilitation Robots: A Survey. , 2019, , 319-353.		5
11	On the Relationship Between Muscle Synergies and Redundant Degrees of Freedom in Musculoskeletal Systems. Frontiers in Computational Neuroscience, 2019, 13, 23.	2.1	4
12	Optimal Impedance Control of an Upper Limb Stroke Rehabilitation Robot. , 2015, , .		1
13	Adaptive Control of an Upper Extremity Rehabilitation Robot with Backlash. , 0, , .		0
14	Optimal Vertical Jump of a Human. , 0, , .		0