

Alexander V Terekhov

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

476
citations

840776

11
h-index

996975

15
g-index

18
all docs

18
docs citations

18
times ranked

551
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovering space "Grounding spatial topology and metric regularity in a naive agent's sensorimotor experience. <i>Neural Networks</i> , 2018, 105, 371-392.	5.9	11
2	Optimality and stability of intentional and unintentional actions: I. Origins of drifts in performance. <i>Experimental Brain Research</i> , 2017, 235, 481-496.	1.5	23
3	The Change in Fingertip Contact Area as a Novel Proprioceptive Cue. <i>Current Biology</i> , 2016, 26, 1159-1163.	3.9	60
4	Analytical Inverse Optimization in Two-Hand Prehensile Tasks. <i>Journal of Motor Behavior</i> , 2016, 48, 424-434.	0.9	1
5	Learning agent's spatial configuration from sensorimotor invariants. <i>Robotics and Autonomous Systems</i> , 2015, 71, 49-59.	5.1	17
6	Segregation of Tactile Input Features in Neurons of the Cuneate Nucleus. <i>Neuron</i> , 2014, 83, 1444-1452.	8.1	111
7	Spatio-temporal skin strain distributions evoke low variability spike responses in cuneate neurons. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20131015.	3.4	49
8	Optimization and Variability of Motor Behavior in Multifinger Tasks: What Variables Does the Brain Use?. <i>Journal of Motor Behavior</i> , 2013, 45, 289-305.	0.9	7
9	Comparison of Interfinger Connection Matrix Computation Techniques. <i>Journal of Applied Biomechanics</i> , 2013, 29, 525-534.	0.8	4
10	Reconstruction of the Unknown Optimization Cost Functions from Experimental Recordings during Static Multi-Finger Prehension. <i>Motor Control</i> , 2012, 16, 195-228.	0.6	10
11	Forces and moments generated by the human arm: variability and control. <i>Experimental Brain Research</i> , 2012, 223, 159-175.	1.5	20
12	Minimal adhesion surface area in tangentially loaded digital contacts. <i>Journal of Biomechanics</i> , 2011, 44, 2508-2510.	2.1	29
13	Analytical and numerical analysis of inverse optimization problems: conditions of uniqueness and computational methods. <i>Biological Cybernetics</i> , 2011, 104, 75-93.	1.3	26
14	Stochastic optimization of a chain sliding mode controller for the mobile robot maneuvering. , 2011, , .		1
15	An analytical approach to the problem of inverse optimization with additive objective functions: an application to human prehension. <i>Journal of Mathematical Biology</i> , 2010, 61, 423-453.	1.9	53
16	Stochastic optimization of a neural network-based controller for aggressive maneuvers on loose surfaces. , 2010, , .		2
17	EXPERIMENTAL STUDY OF A FAST MOBILE ROBOT PERFORMING A DRIFT MANEUVER. , 2010, , .		2
18	Intersegmental Coordination During Human Locomotion: Does Planar Covariation of Elevation Angles Reflect Central Constraints?. <i>Journal of Neurophysiology</i> , 2006, 96, 1406-1419.	1.8	50