Alexander Hunt

List of Publications by Year
in descending order

21	244	1040056	996975
papers	citations	9	15
		h-index	g-index

22	22	22	150
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design process and tools for dynamic neuromechanical models and robot controllers. Biological Cybernetics, 2017, 111, 105-127.	1.3	42
2	A Functional Subnetwork Approach to Designing Synthetic Nervous Systems That Control Legged Robot Locomotion. Frontiers in Neurorobotics, 2017, 11, 37.	2.8	40
3	Development and Training of a Neural Controller for Hind Leg Walking in a Dog Robot. Frontiers in Neurorobotics, 2017, 11, 18.	2.8	36
4	A biologically based neural system coordinates the joints and legs of a tetrapod. Bioinspiration and Biomimetics, 2015, 10, 055004.	2.9	20
5	A three-dimensional musculoskeletal model of the dog. Scientific Reports, 2021, 11, 11335.	3.3	18
6	Neuromechanical Model of Rat Hindlimb Walking with Two-Layer CPGs. Biomimetics, 2019, 4, 21.	3.3	15
7	Analyzing Moment Arm Profiles in a Full-Muscle Rat Hindlimb Model. Biomimetics, 2019, 4, 10.	3.3	12
8	Using Animal Data and Neural Dynamics to Reverse Engineer a Neuromechanical Rat Model. Lecture Notes in Computer Science, 2015, , 211-222.	1.3	12
9	Extending the Functional Subnetwork Approach to a Generalized Linear Integrate-and-Fire Neuron Model. Frontiers in Neurorobotics, 2020, 14, 577804.	2.8	9
10	A Dynamic Neural Network Designed Using Analytical Methods Produces Dynamic Control Properties Similar to an Analogous Classical Controller. , 2019, 3, 320-325.		8
11	Neuromechanical Simulation of an Inter-leg Controller for Tetrapod Coordination. Lecture Notes in Computer Science, 2014, , 142-153.	1.3	8
12	Design of a Canine Inspired Quadruped Robot as a Platform for Synthetic Neural Network Control. Lecture Notes in Computer Science, 2019, , 228-239.	1.3	7
13	Reactive stepping with functional neuromuscular stimulation in response to forward-directed perturbations. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 54.	4.6	5
14	Analyzing Modeled Torque Profiles to Understand Scale-Dependent Active Muscle Responses in the Hip Joint. Biomimetics, 2022, 7, 17.	3.3	4
15	Biomimetic Knee Design to Improve Joint Torque and Life for Bipedal Robotics. Lecture Notes in Computer Science, 2018, , 91-102.	1.3	2
16	Determination of Artificial Muscle Placement for Biomimetic Humanoid Robot Legs. Lecture Notes in Computer Science, 2019, , 15-26.	1.3	2
17	Optimization of Artificial Muscle Placements for a Humanoid Bipedal Robot. Lecture Notes in Computer Science, 2020, , 257-269.	1.3	2
18	A Neuromechanical Rat Model with a Complete Set of Hind Limb Muscles. Lecture Notes in Computer Science, 2018, , 527-537.	1.3	1

#	Article	IF	Citations
19	Kinematic and Kinetic Analysis of a Biomechanical Model of Rat Hind Limb with Biarticular Muscles. Lecture Notes in Computer Science, 2020, , 55-67.	1.3	1
20	Using Animatlab for Neuromechanical Analysis: Linear Hill Parameter Calculation. Lecture Notes in Computer Science, 2020, , 402-414.	1.3	0
21	Experimental Verification of Kinematics and Kinetics in a Biomimetic Bipedal Robot. Journal of Mechanisms and Robotics, 0, , 1-14.	2.2	0