Patrick Henaff

List of Publications by Year
in descending order

31	283	1307594 7	1125743 13
papers	citations	h-index	g-index

32	32	32	216
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Simulation of Spinal Muscle Control in Human Gait Using OpenSim. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 254-265.	3.2	1
2	Comparative study of forced oscillators for the adaptive generation of rhythmic movements in robot controllers. Biological Cybernetics, 2019, 113, 547-560.	1.3	6
3	Robot-Based Motor Rehabilitation in Autism: A Systematic Review. International Journal of Social Robotics, 2019, 11, 753-764.	4.6	24
4	The Sound of Actuators: Disturbance in Human - Robot Interactions?. , 2019, , .		3
5	Increasing Capacity of Association Memory by Means of Synaptic Clustering. Neural Processing Letters, 2019, 50, 2717-2730.	3.2	2
6	Physical Analysis of Handshaking Between Humans: Mutual Synchronisation and Social Context. International Journal of Social Robotics, 2019, 11, 541-554.	4.6	8
7	Motor Coordination Learning for Rhythmic Movements. , 2019, , .		0
8	Closed-loop Central Pattern Generator Control of Human Gaits in OpenSim Simulator. , 2019, , .		5
9	Integration of a collaborative robot in a hard steel industrial environment. , 2018, , .		6
10	CPG-based Controllers can Trigger the Emergence of Social Synchrony in Human-Robot Interactions. , 2018, , .		3
11	CPG-based Controllers can Generate Both Discrete and Rhythmic Movements. , 2018, , .		5
12	Hebbian Plasticity in CPG Controllers Facilitates Self-Synchronization for Human-Robot Handshaking. Frontiers in Neurorobotics, 2018, 12, 29.	2.8	17
13	Gas Storage Valuation and Hedging: A Quantification of Model Risk. International Journal of Financial Studies, 2018, 6, 27.	2.3	11
14	Estimation of Imaginary Movements Quality Based on Machine Learning for Brain Computer Interface Applications. MÃ¬krosistemi, ElektronÃ¬ka Ta Akustika, 2018, 23, 25-31.	0.1	0
15	Keynote III. Procedia Computer Science, 2017, 116, 10.	2.0	0
16	CPG-based circuitry for controlling musculoskeletal model of human locomotor system. , 2017, , .		2
17	Neuro-musculoskeletal simulator of human rhythmic movements. , 2017, , .		0
18	Measurement and analysis of physical parameters of the handshake between two persons according to simple social contexts. , 2016, , .		17

#	Article	IF	Citations
19	Bio-inspired plastic controller for a robot arm to shake hand with human. , 2016, , .		8
20	Analysis of a handshake between humans using wavelet transforms. , 2015, , .		3
21	Multi-layered multi-pattern CPG for adaptive locomotion of humanoid robots. Biological Cybernetics, 2014, 108, 291-303.	1.3	75
22	Sensor network architecture to measure characteristics of a handshake between humans. , 2014, , .		12
23	Electronic hardware design of a low cost tactile sensor device for physical human-robot interactions. , 2013, , .		5
24	Real time implementation of CTRNN and BPTT algorithm to learn on-line biped robot balance: Experiments on the standing posture. Control Engineering Practice, 2011, 19, 89-99.	5.5	13
25	Non-invasive low cost method for linear and angular accelerations measurement in biped locomotion mechanisms. , 2011, , .		1
26	MUSCLE EMULATION WITH DC MOTOR AND NEURAL NETWORKS FOR BIPED ROBOTS. International Journal of Neural Systems, 2010, 20, 341-353.	5.2	7
27	On the Role of Sensory Feedbacks in Rowatâ€“Selverston CPG to Improve Robot Legged Locomotion. Frontiers in Neurorobotics, 2010, 4, 113.	2.8	21
28	A Study of Adaptive Locomotive Behaviors of a Biped Robot: Patterns Generation and Classification. Lecture Notes in Computer Science, 2010, , 313-324.	1.3	12
29	Experience-based learning mechanism for neural controller adaptation: Application to walking biped robots. , 2009, , .		6
30	Ã‰tude sur l'intÃ©rÃªt des modÃ¨les biologiques de rÃ©seaux de neurones pour la synthÃ¨se de rythmes locomoteurs adaptatifs. Journal Europeen Des Systemes Automatises, 2007, 41, 413-436.	0.4	0
31	Muscleâ€Like Compliance in Knee Articulations Improves Biped Robot Walkings. , 0, , .		3