Fariba Bahrami

List of Publications by Year
in descending order

46	358	1039406	887659
papers	citations	9	17
		h-index	g-index

47	47	47	441
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Impulse Control Disorders in Parkinson's Disease Are Associated with Dysfunction in Stimulus Valuation But Not Action Valuation. Journal of Neuroscience, 2014, 34, 7814-7824.	1.7	73
2	An extended mathematical model of tumor growth and its interaction with the immune system, to be used for developing an optimized immunotherapy treatment protocol. Mathematical Biosciences, 2017, 292, 1-9.	0.9	44
3	Functional modeling of astrocytes in epilepsy: a feedback system perspective. Neural Computing and Applications, 2011, 20, 1131-1139.	3.2	26
4	A Mathematical Model of Immune Activation with a Unified Self-Nonself Concept. Frontiers in Immunology, 2013, 4, 474.	2.2	23
5	Trajectory of human movement during sit to stand: a new modeling approach based on movement decomposition and multi-phase cost function. Experimental Brain Research, 2013, 229, 221-234.	0.7	19
6	Computational modeling of opioid-induced synaptic plasticity in hippocampus. PLoS ONE, 2018, 13, e0193410.	1.1	14
7	MODEM: a multi-agent hierarchical structure to model the human motor control system. Biological Cybernetics, 2009, 101, 361-377.	0.6	13
8	Attractor controllability of Boolean networks by flipping a subset of their nodes. Chaos, 2018, 28, 043120.	1.0	13
9	Deep Temporal Organization of fMRI Phase Synchrony Modes Promotes Large-Scale Disconnection in Schizophrenia. Frontiers in Neuroscience, 2020, 14, 214.	1.4	13
10	COMAP: A new computational interpretation of human movement planning level based on coordinated minimum angle jerk policies and six universal movement elements. Human Movement Science, 2012, 31, 1037-1055.	0.6	10
11	Attractor Stabilizability of Boolean Networks with Application to Biomolecular Regulatory Networks. IEEE Transactions on Control of Network Systems, 2018, , 1-1.	2.4	9
12	From a biological template model to gait assistance with an exosuit. Bioinspiration and Biomimetics, 2021, 16, 066024.	1.5	9
13	Postural instability and position of the center of pressure into the base of support in postmenopausal osteoporotic and nonosteoporotic women with and without hyperkyphosis. Archives of Osteoporosis, 2019, 14, 58.	1.0	8
14	A modified particle swarm optimization algorithm for parameter estimation of a biological system. Theoretical Biology and Medical Modelling, 2018, 15, 17.	2.1	7
15	AMA-MOSAICI: An automatic module assigning hierarchical structure to control human motion based on movement decomposition. Neurocomputing, 2009, 72, 2310-2318.	3.5	6
16	Are weight shifting and dynamic control strategies different in postmenopausal women with and without type-I osteoporosis?. Experimental Gerontology, 2021, 154, 111529.	1.2	6
17	The Critical Modulatory Role of Spiny Stellate Cells in Seizure Onset Based on Dynamic Analysis of a Neural Mass Model. Frontiers in Neuroscience, 2021, 15, 743720.	1.4	6
18	Design and development of a multi-axis force sensor based on the hall effect with decouple structure. Mechatronics, 2022, 84, 102766.	2.0	5

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19	An Adaptive Neuro-Fuzzy Inference System for Diagnosis of Aphasia. , 2008, , .		4
20	Designing a deep brain stimulator to suppress pathological neuronal synchrony. Neural Networks, 2015, 63, 282-292.	3.3	4
21	Human balance control in 3D running based on virtual pivot point concept. Journal of Experimental Biology, 2022, 225, .	0.8	4
22	Method to classify elderly subjects as fallers and nonâ€fallers based on gait energy image. Healthcare Technology Letters, 2014, 1, 110-114.	1.9	3
23	Recognizing subjects who are learned how to write with foot from unlearned subjects using EMG signals. , 2016, , .		3
24	Effects of irreversible olivary system lesion on the gain adaptation of optokinetic response eye movement: a model based study. , 2018, , .		3
25	How does the CNS control arm reaching movements?ÂIntroducing a hierarchical nonlinear predictive control organization based on the idea of muscle synergies. PLoS ONE, 2020, 15, e0228726.	1.1	3
26	The simultaneous changes in motor performance and EEG patterns in beta band during learning dart throwing skill in dominant and non-dominant hand. Computer Methods in Biomechanics and Biomedical Engineering, 2022, , 1-11.	0.9	3
27	Real time estimation and tracking of human body Center of Mass using 2D video imaging. , 2011, , .		2
28	INVESTIGATING DIFFERENT TARGETS IN DEEP BRAIN STIMULATION ON PARKINSON'S DISEASE USING A MEAN-FIELD MODEL OF THE BASAL GANGLIA-THALAMOCORTICAL SYSTEM. Journal of Mechanics in Medicine and Biology, 2012, 12, 1240004.	0.3	2
29	Proposing a new set of features based on frieze pattern to discriminate normal and abnormal gait. , 2012, , .		2
30	Effect of attentional focus on muscles activations and their recruitment during learning a balance control task. , 2016, , .		2
31	Formation of Opioid-Induced Memory and Its Prevention: A Computational Study. Frontiers in Computational Neuroscience, 2018, 12, 63.	1.2	2
32	The Concept of Transmission Coefficient Among Different Cerebellar Layers: A Computational Tool for Analyzing Motor Learning. Frontiers in Neural Circuits, 2019, 13, 54.	1.4	2
33	A Simple Computational Model of Light-sensitive Cardiac tissue for Simulation of the optogenetic Defibrillation. , 2019, , .		2
34	3D human arm reaching movement planning with principal patterns in successive phases. Journal of Computational Neuroscience, 2020, 48, 265-280.	0.6	2
35	Assessing the Effects of Opioids on Pathological Memory by a Computational Model. Basic and Clinical Neuroscience, 2018, 9, 275-288.	0.3	2
36	Gait modification with subject-specific foot progression angle in people with moderate knee osteoarthritis: Investigation of knee adduction moment and muscle activity. Knee, 2022, 35, 124-132.	0.8	2

#	Article	IF	Citations
37	Real-time movement planning: A new model to describe human motor planning level. , 2011, , .		1
38	A mathematical model of arm movement during rhythmic motor activity. , 2011, , .		1
39	Modelling place field formation in hippocampus considering recurrent connections in CA3 and STDP. , 2013, , .		1
40	A mathematical model for neuron astrocytes interactions in hippocampus during addiction. , 2014, , .		1
41	Exploring the effect of training on muscle synergies and kinematics of a task. , 2016, , .		1
42	Seizure prediction using a hippocampal circuitry model developed based on a tripartite synapse structure. , 2016, , .		1
43	A web-based gamification of upper extremity robotic rehabilitation. , 2021, , .		1
44	Investigating the effect of different targets in deep brain stimulation on symptoms of Parkinson's disease using a mean-field model of the basal ganglia-thalamocortical system. , 2011, , .		0
45	Alzheimer's disease can cause epileptic seizure activity in a CA3-CA1 tripartite synapse: A computational study. , 2014, , .		0
46	Allocentric spatial navigation impairment in schizophrenic subject: A model-based study. , 2015, , .		0