

# Fariba Bahrami

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

36  
papers

215  
citations

7  
h-index

13  
g-index

47  
ext. papers

288  
ext. citations

3.5  
avg, IF

3.27  
L-index

#	Paper	IF	Citations
36	Gait modification with subject-specific foot progression angle in people with moderate knee osteoarthritis: Investigation of knee adduction moment and muscle activity.. <i>Knee</i> , <b>2022</b> , 35, 124-132	2.6	0
35	The simultaneous changes in motor performance and EEG patterns in beta band during learning dart throwing skill in dominant and non-dominant hand.. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2022</b> , 1-11	2.1	0
34	Design and development of a multi-axis force sensor based on the hall effect with decouple structure. <i>Mechatronics</i> , <b>2022</b> , 84, 102766	3	
33	From a biological template model to gait assistance with an exosuit. <i>Bioinspiration and Biomimetics</i> , <b>2021</b> , 16,	2.6	3
32	Are weight shifting and dynamic control strategies different in postmenopausal women with and without type-I osteoporosis?. <i>Experimental Gerontology</i> , <b>2021</b> , 154, 111529	4.5	0
31	The Critical Modulatory Role of Spiny Stellate Cells in Seizure Onset Based on Dynamic Analysis of a Neural Mass Model.. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 743720	5.1	0
30	3D human arm reaching movement planning with principal patterns in successive phases. <i>Journal of Computational Neuroscience</i> , <b>2020</b> , 48, 265-280	1.4	1
29	Deep Temporal Organization of fMRI Phase Synchrony Modes Promotes Large-Scale Disconnection in Schizophrenia. <i>Frontiers in Neuroscience</i> , <b>2020</b> , 14, 214	5.1	3
28	How does the CNS control arm reaching movements? Introducing a hierarchical nonlinear predictive control organization based on the idea of muscle synergies. <i>PLoS ONE</i> , <b>2020</b> , 15, e0228726	3.7	2
27	The Concept of Transmission Coefficient Among Different Cerebellar Layers: A Computational Tool for Analyzing Motor Learning. <i>Frontiers in Neural Circuits</i> , <b>2019</b> , 13, 54	3.5	1
26	Postural instability and position of the center of pressure into the base of support in postmenopausal osteoporotic and nonosteoporotic women with and without hyperkyphosis. <i>Archives of Osteoporosis</i> , <b>2019</b> , 14, 58	2.9	6
25	Attractor Stabilizability of Boolean Networks With Application to Biomolecular Regulatory Networks. <i>IEEE Transactions on Control of Network Systems</i> , <b>2018</b> , 1-1	4	4
24	Formation of Opioid-Induced Memory and Its Prevention: A Computational Study. <i>Frontiers in Computational Neuroscience</i> , <b>2018</b> , 12, 63	3.5	1
23	Attractor controllability of Boolean networks by flipping a subset of their nodes. <i>Chaos</i> , <b>2018</b> , 28, 043120.3	3.3	6
22	Computational modeling of opioid-induced synaptic plasticity in hippocampus. <i>PLoS ONE</i> , <b>2018</b> , 13, e0193410	3.7	9
21	Assessing the Effects of Opioids on Pathological Memory by a Computational Model. <i>Basic and Clinical Neuroscience</i> , <b>2018</b> , 9, 275-288	1.4	1
20	Effects of irreversible olivary system lesion on the gain adaptation of optokinetic response eye movement: a model based study <b>2018</b> ,		2

19	A modified particle swarm optimization algorithm for parameter estimation of a biological system. <i>Theoretical Biology and Medical Modelling</i> , <b>2018</b> , 15, 17	2.3	4
18	How Do We Navigate Our Way to Places? <b>2017</b> , 357-372		
17	An extended mathematical model of tumor growth and its interaction with the immune system, to be used for developing an optimized immunotherapy treatment protocol. <i>Mathematical Biosciences</i> , <b>2017</b> , 292, 1-9	3.9	24
16	Recognizing subjects who are learned how to write with foot from unlearned subjects using EMG signals <b>2016</b> ,		2
15	Seizure prediction using a hippocampal circuitry model developed based on a tripartite synapse structure <b>2016</b> ,		1
14	Designing a deep brain stimulator to suppress pathological neuronal synchrony. <i>Neural Networks</i> , <b>2015</b> , 63, 282-92	9.1	2
13	Impulse control disorders in Parkinson's disease are associated with dysfunction in stimulus valuation but not action valuation. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 7814-24	6.6	58
12	Method to classify elderly subjects as fallers and non-fallers based on gait energy image. <i>Healthcare Technology Letters</i> , <b>2014</b> , 1, 110-4	1.9	2
11	A mathematical model for neuron astrocytes interactions in hippocampus during addiction <b>2014</b> ,		1
10	Trajectory of human movement during sit to stand: a new modeling approach based on movement decomposition and multi-phase cost function. <i>Experimental Brain Research</i> , <b>2013</b> , 229, 221-34	2.3	16
9	A mathematical model of immune activation with a unified self-nonsel self concept. <i>Frontiers in Immunology</i> , <b>2013</b> , 4, 474	8.4	14
8	COMAP: a new computational interpretation of human movement planning level based on coordinated minimum angle jerk policies and six universal movement elements. <i>Human Movement Science</i> , <b>2012</b> , 31, 1037-55	2.4	6
7	INVESTIGATING DIFFERENT TARGETS IN DEEP BRAIN STIMULATION ON PARKINSON'S DISEASE USING A MEAN-FIELD MODEL OF THE BASAL GANGLIA-THALAMOCORTICAL SYSTEM. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2012</b> , 12, 1240004	0.7	2
6	Functional modeling of astrocytes in epilepsy: a feedback system perspective. <i>Neural Computing and Applications</i> , <b>2011</b> , 20, 1131-1139	4.8	21
5	Real time estimation and tracking of human body Center of Mass using 2D video imaging <b>2011</b> ,		1
4	Real-time movement planning: A new model to describe human motor planning level <b>2011</b> ,		1
3	AMA-MOSAICI: An automatic module assigning hierarchical structure to control human motion based on movement decomposition. <i>Neurocomputing</i> , <b>2009</b> , 72, 2310-2318	5.4	5
2	MODEM: a multi-agent hierarchical structure to model the human motor control system. <i>Biological Cybernetics</i> , <b>2009</b> , 101, 361-77	2.8	11

1 An Adaptive Neuro-Fuzzy Inference System for Diagnosis of Aphasia **2008**,

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