

# Keisuke Shima

## List of Publications by Year in descending order

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39  
papers

349  
citations

1039880

9  
h-index

996849

15  
g-index

41  
all docs

41  
docs citations

41  
times ranked

345  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous movements in the newborns: a tool of quantitative video analysis of preterm babies. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 199, 105838.	2.6	13
2	Special Issue on Wearable Robotics and Mechatronics Technology. <i>Journal of Robotics and Mechatronics</i> , 2020, 32, 137-137.	0.5	0
3	Quantitative Evaluation of Human Finger Tapping Movements Through Magnetic Measurements. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 186-196.	3.7	3
4	Temporal Processing Instability with Millisecond Accuracy is a Cardinal Feature of Sensorimotor Impairments in Autism Spectrum Disorder: Analysis Using the Synchronized Finger-Tapping Task. <i>Journal of Autism and Developmental Disorders</i> , 2018, 48, 351-360.	1.7	22
5	Markerless Human Activity Recognition Method Based on Deep Neural Network Model Using Multiple Cameras. , 2018, , .		11
6	A novel haptic device design based on somatosensory superimposed stimuli. <i>Advanced Robotics</i> , 2017, 31, 135-142.	1.1	4
7	A novel hidden Markov model-based pattern discrimination method with the anomaly detection for EMG signals. , 2017, 2017, 921-924.		3
8	Simplified standing function and sensory evaluation system for fall prevention. , 2017, , .		2
9	A fundamental study on how holding a helium-filled balloon affects stability in human standing. , 2017, 2017, 1061-1066.		1
10	A new approach to direct rehabilitation based on functional electrical stimulation and EMG classification. , 2016, , .		7
11	Quantifying Parkinson's disease finger-tapping severity by extracting and synthesizing finger motion properties. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 953-965.	1.6	28
12	Simplified Standing Function Evaluation System for Fall Prevention. <i>Lecture Notes in Computer Science</i> , 2016, , 48-57.	1.0	3
13	Bilateral Human-Human Interaction based on EMG and FES. <i>Journal of the Institute of Electrical Engineers of Japan</i> , 2016, 136, 678-682.	0.0	0
14	A standing-function evaluation method based on virtual light touch contact. , 2015, , .		3
15	Operation assistance for the Bio-Remote environmental control system using a Bayesian Network-based prediction model. , 2015, 2015, 1160-3.		3
16	Electromyographic prosthetic hand using grasping-force-magnification mechanism with five independently driven fingers. <i>Advanced Robotics</i> , 2015, 29, 1586-1598.	1.1	9
17	A Recurrent Probabilistic Neural Network with Dimensionality Reduction Based on Time-series Discriminant Component Analysis. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015, 26, 3021-3033.	7.2	25
18	EMG-Based Control of a Multi-Joint Robot for Operating a Glovebox. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2015, , 36-52.	0.4	2

#	ARTICLE	IF	CITATIONS
19	A novel classification method with unlearned-class detection based on a gaussian mixture model. , 2014, , .		8
20	Novel method for mitigation of body sway and preliminary results for tandem standing. , 2013, , .		2
21	A Quasi-Optimal Channel Selection Method for Bioelectric Signal Classification Using a Partial Kullback-Leibler Information Measure. IEEE Transactions on Biomedical Engineering, 2013, 60, 853-861.	2.5	17
22	A training system for the MyoBock hand in a virtual reality environment. , 2013, , .		6
23	Virtual light touch contact: A novel concept for mitigation of body sway. , 2013, , .		18
24	Bioelectric signal classification using a recurrent probabilistic neural network with time-series discriminant component analysis. , 2013, 2013, 5394-7.		3
25	Severity estimation of finger-tapping caused by Parkinson's disease by using linear discriminant regression analysis. , 2012, 2012, 4315-8.		5
26	The Cybernetic Rehabilitation Aid: Preliminary Results for Wrist and Elbow Motions in Healthy Subjects. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 697-707.	2.7	27
27	EMG-based control for a feeding support robot using a probabilistic neural network. , 2012, , .		9
28	A CPG synergy model for evaluation of human finger tapping movements. , 2011, 2011, 4443-8.		10
29	Estimation method of finger tapping dynamics using simple magnetic detection system. Review of Scientific Instruments, 2010, 81, 054303.	0.6	11
30	The Cybernetic Rehabilitation Aid: A novel concept for direct rehabilitation. , 2009, , .		2
31	Estimation of human finger tapping forces based on a fingerpad-stiffness model. , 2009, 2009, 2663-7.		9
32	An MMG-based human-assisting manipulator using acceleration sensors. , 2009, , .		7
33	Measurement and Evaluation of Finger Tapping Movements Using Log-linearized Gaussian Mixture Networks. Sensors, 2009, 9, 2187-2201.	2.1	41
34	A Motion-based System to Evaluate Infant Movements Using Real-time Video Analysis. IFMBE Proceedings, 2009, , 2043-2047.	0.2	3
35	Pattern discrimination method with a boosting approach using hierarchical neural trees. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2008, 222, 701-710.	0.7	5
36	A tapping interface for finger movement training using magnetic sensors. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	1

#	ARTICLE	IF	CITATIONS
37	FPGA Implementation of a Probabilistic Neural Network Using Delta-Sigma Modulation for Pattern Discrimination of EMG Signals. , 2007, , .		9
38	Novel Human Interface for Game Control Using Voluntarily Generated Biological Signals. Journal of Robotics and Mechatronics, 2006, 18, 626-633.	0.5	12
39	A Universal Interface for Video Game Machines Using Biological Signals. Lecture Notes in Computer Science, 2005, , 88-98.	1.0	2