

# Akira Furui

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

280  
citations

1307366

7  
h-index

940416

16  
g-index

29  
all docs

29  
docs citations

29  
times ranked

326  
citing authors

#	ARTICLE	IF	CITATIONS
1	A myoelectric prosthetic hand with muscle synergy-based motion determination and impedance model-based biomimetic control. <i>Science Robotics</i> , 2019, 4, .	9.9	110
2	Markerless Measurement and Evaluation of General Movements in Infants. <i>Scientific Reports</i> , 2020, 10, 1422.	1.6	35
3	A Variance Distribution Model of Surface EMG Signals Based on Inverse Gamma Distribution. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 2672-2681.	2.5	18
4	Non-Gaussianity Detection of EEG Signals Based on a Multivariate Scale Mixture Model for Diagnosis of Epileptic Seizures. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 515-525.	2.5	15
5	An artificial EMG generation model based on signal-dependent noise and related application to motion classification. <i>PLoS ONE</i> , 2017, 12, e0180112.	1.1	13
6	Predictors of Stroke Outcome Extracted from Multivariate Linear Discriminant Analysis or Neural Network Analysis. <i>Journal of Atherosclerosis and Thrombosis</i> , 2022, 29, 99-110.	0.9	9
7	A Scale Mixture-Based Stochastic Model of Surface EMG Signals With Variable Variances. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 2780-2788.	2.5	8
8	EMG pattern recognition via Bayesian inference with scale mixture-based stochastic generative models. <i>Expert Systems With Applications</i> , 2021, 185, 115644.	4.4	8
9	Relationships between motor and cognitive functions and subsequent post-stroke mood disorders revealed by machine learning analysis. <i>Scientific Reports</i> , 2020, 10, 19571.	1.6	7
10	Pen-point Trajectory Analysis During Trail Making Test Based on a Time Base Generator Model. , 2021, 2021, 6215-6219.		7
11	Neural network-based modeling of the number of microbubbles generated with four circulation factors in cardiopulmonary bypass. <i>Scientific Reports</i> , 2021, 11, 549.	1.6	6
12	Development of Myoelectric Robotic/Prosthetic Hands with Cybernetic Control at the Biological Systems Engineering Laboratory, Hiroshima University. <i>Journal of Robotics and Mechatronics</i> , 2019, 31, 27-34.	0.5	6
13	Spatiotemporal Parameterization of Human Reaching Movements Based on Time Base Generator. <i>IEEE Access</i> , 2020, 8, 104944-104955.	2.6	5
14	Measurement of emotional states of zebrafish through integrated analysis of motion and respiration using bioelectric signals. <i>Scientific Reports</i> , 2021, 11, 187.	1.6	5
15	Cardiorespiratory synchronisation and systolic blood pressure correlation of peripheral arterial stiffness during endoscopic thoracic sympathectomy. <i>Scientific Reports</i> , 2021, 11, 5966.	1.6	4
16	Variance distribution analysis of surface EMG signals based on marginal maximum likelihood estimation. , 2017, 2017, 2514-2517.		3
17	An EMG Pattern Classification Method Based on a Mixture of Variance Distribution Models. , 2018, 2018, 5216-5219.		3
18	Video-based evaluation of infant crawling toward quantitative assessment of motor development. <i>Scientific Reports</i> , 2020, 10, 11266.	1.6	3

#	ARTICLE	IF	CITATIONS
19	Longitudinal assessment of U-shaped and inverted U-shaped developmental changes in the spontaneous movements of infants via markerless video analysis. Scientific Reports, 2020, 10, 16827.	1.6	3
20	Toward a Robust Estimation of Respiratory Rate Using Cardiovascular Biomarkers: Robustness Analysis Under Pain Stimulation. IEEE Sensors Journal, 2022, 22, 9904-9913.	2.4	3
21	Muscle Fatigue Analysis by Using a Scale Mixture-based Stochastic Model of Surface EMG Signals. , 2019, 2019, 1948-1951.		2
22	Electromyographic Interface Technology and Robotic Arm Prostheses. Journal of the Japan Society for Precision Engineering, 2017, 83, 1010-1013.	0.0	2
23	Pressure-based Detection of Heart and Respiratory Rates from Human Body Surface using a Biodegradable Piezoelectric Sensor. , 2021, 2021, 5415-5418.		2
24	Sleep EEG Analysis Based on a Scale Mixture Model and its Application to Sleep Spindle Detection. , 2022, , .		1
25	A Time-Series Scale Mixture Model of EEG with a Hidden Markov Structure for Epileptic Seizure Detection. , 2021, 2021, 5832-5836.		1
26	Does the variance of surface EMG signals during isometric contractions follow an inverse gamma distribution?. , 2020, 2020, 3118-3121.		0
27	Biomimetic Control of Myoelectric Prosthetic Hand Based on a Lambda-type Muscle Model. , 2021, , .		0
28	Increased cerebrovascular reactivity in selected brain regions after extracranial-intracranial bypass improves the speed and accuracy of visual cancellation in patients with severe steno-occlusive disease: a preliminary study. Neurosurgical Review, 2022, , 1.	1.2	0