Akira Furui

List of Publications by Year
in descending order

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	Predictors of Stroke Outcome Extracted from Multivariate Linear Discriminant Analysis or Neural Network Analysis. Journal of Atherosclerosis and Thrombosis, 2022, 29, 99-110.	0.9	9
2	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
3	Sleep EEG Analysis Based on a Scale Mixture Model and its Application to Sleep Spindle Detection. , 2022, , .		1
4	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
5	Non-Gaussianity Detection of EEG Signals Based on a Multivariate Scale Mixture Model for Diagnosis of Epileptic Seizures. IEEE Transactions on Biomedical Engineering, 2021, 68, 515-525.	2.5	15
6	Neural network-based modeling of the number of microbubbles generated with four circulation factors in cardiopulmonary bypass. Scientific Reports, 2021, 11, 549.	1.6	6
7	Cardiorespiratory synchronisation and systolic blood pressure correlation of peripheral arterial stiffness during endoscopic thoracic sympathectomy. Scientific Reports, 2021, 11, 5966.	1.6	4
8	EMG pattern recognition via Bayesian inference with scale mixture-based stochastic generative models. Expert Systems With Applications, 2021, 185, 115644.	4.4	8
9	Measurement of emotional states of zebrafish through integrated analysis of motion and respiration using bioelectric signals. Scientific Reports, 2021, 11, 187.	1.6	5
10	Biomimetic Control of Myoelectric Prosthetic Hand Based on a Lambda-type Muscle Model. , 2021, , .		0
11	Pen-point Trajectory Analysis During Trail Making Test Based on a Time Base Generator Model. , 2021, 2021, 6215-6219.		7
12	Pressure-based Detection of Heart and Respiratory Rates from Human Body Surface using a Biodegradable Piezoelectric Sensor. , 2021, 2021, 5415-5418.		2
13	A Time-Series Scale Mixture Model of EEG with a Hidden Markov Structure for Epileptic Seizure Detection. , 2021, 2021, 5832-5836.		1
14	Does the variance of surface EMG signals during isometric contractions follow an inverse gamma distribution?. , 2020, 2020, 3118-3121.		0
15	Video-based evaluation of infant crawling toward quantitative assessment of motor development. Scientific Reports, 2020, 10, 11266.	1.6	3
16	Relationships between motor and cognitive functions and subsequent post-stroke mood disorders revealed by machine learning analysis. Scientific Reports, 2020, 10, 19571.	1.6	7
17	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
18	Spatiotemporal Parameterization of Human Reaching Movements Based on Time Base Generator. IEEE Access, 2020, 8, 104944-104955.	2.6	5

#	Article	IF	Citations
19	Markerless Measurement and Evaluation of General Movements in Infants. Scientific Reports, 2020, 10, 1422.	1.6	35
20	A myoelectric prosthetic hand with muscle synergyâ€“based motion determination and impedance modelâ€“based biomimetic control. Science Robotics, 2019, 4, .	9.9	110
21	Muscle Fatigue Analysis by Using a Scale Mixture-based Stochastic Model of Surface EMG Signals. , 2019, 2019, 1948-1951.		2
22	A Scale Mixture-Based Stochastic Model of Surface EMG Signals With Variable Variances. IEEE Transactions on Biomedical Engineering, 2019, 66, 2780-2788.	2.5	8
23	Development of Myoelectric Robotic/Prosthetic Hands with Cybernetic Control at the Biological Systems Engineering Laboratory, Hiroshima University. Journal of Robotics and Mechatronics, 2019, 31, 27-34.	0.5	6
24	An EMG Pattern Classification Method Based on a Mixture of Variance Distribution Models. , 2018, 2018, 5216-5219.		3
25	A Variance Distribution Model of Surface EMG Signals Based on Inverse Gamma Distribution. IEEE Transactions on Biomedical Engineering, 2017, 64, 2672-2681.	2.5	18
26	Variance distribution analysis of surface EMG signals based on marginal maximum likelihood estimation. , 2017, 2017, 2514-2517.		3
27	An artificial EMG generation model based on signal-dependent noise and related application to motion classification. PLoS ONE, 2017, 12, e0180112.	1.1	13
28	Electromyographic Interface Technology and Robotic Arm Prostheses. Journal of the Japan Society for Precision Engineering, 2017, 83, 1010-1013.	0.0	2