

Pornchai Phukpattaranont

List of Publications by Citations

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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.

68

papers

1,878

citations

18

h-index

42

g-index

91

ext. papers

2,388

ext. citations

2.6

avg, IF

5.21

L-index

#	Paper	IF	Citations
68	Feature reduction and selection for EMG signal classification. <i>Expert Systems With Applications</i> , 2012 , 39, 7420-7431	7.8	734
67	A self-calibration water level measurement using an interdigital capacitive sensor. <i>Sensors and Actuators A: Physical</i> , 2014 , 209, 175-182	3.9	92
66	The Usefulness of Mean and Median Frequencies in Electromyography Analysis 2012 ,		89
65	QRS detection algorithm based on the quadratic filter. <i>Expert Systems With Applications</i> , 2015 , 42, 4867-4877	7.8	77
64	Feature Extraction and Reduction of Wavelet Transform Coefficients for EMG Pattern Classification. <i>Elektronika Ir Elektrotechnika</i> , 2012 , 122,	1.7	68
63	Fractal analysis features for weak and single-channel upper-limb EMG signals. <i>Expert Systems With Applications</i> , 2012 , 39, 11156-11163	7.8	62
62	Mean and Median Frequency of EMG Signal to Determine Muscle Force based on Time-Dependent Power Spectrum. <i>Elektronika Ir Elektrotechnika</i> , 2013 , 19,	1.7	48
61	A Review of Control Methods for Electric Power Wheelchairs Based on Electromyography Signals with Special Emphasis on Pattern Recognition. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , 2011 , 28, 316	1.5	38
60	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016 , 65, 1547-1557	5.2	35
59	Post-beamforming second-order Volterra filter for pulse-echo ultrasonic imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2003 , 50, 987-1001	3.2	29
58	ELECTROMYOGRAPHY (EMG) SIGNAL CLASSIFICATION BASED ON DETRENDED FLUCTUATION ANALYSIS. <i>Fluctuation and Noise Letters</i> , 2011 , 10, 281-301	1.2	27
57	INVESTIGATING LONG-TERM EFFECTS OF FEATURE EXTRACTION METHODS FOR CONTINUOUS EMG PATTERN CLASSIFICATION. <i>Fluctuation and Noise Letters</i> , 2012 , 11, 1250028	1.2	25
56	A preliminary study assessing time-domain EMG features of classifying exercises in preventing falls in the elderly 2012 ,		24
55	WAVELET-BASED DENOISING ALGORITHM FOR ROBUST EMG PATTERN RECOGNITION. <i>Fluctuation and Noise Letters</i> , 2011 , 10, 157-167	1.2	22
54	Evaluation of feature extraction techniques and classifiers for finger movement recognition using surface electromyography signal. <i>Medical and Biological Engineering and Computing</i> , 2018 , 56, 2259-2271 ^{3.1}		21
53	Evaluating Feature Extraction Methods of Electrooculography (EOG) Signal for Human-Computer Interface. <i>Procedia Engineering</i> , 2012 , 32, 246-252		19
52	Reduced viral burden in paralytic compared to furious canine rabies is associated with prominent inflammation at the brainstem level. <i>BMC Veterinary Research</i> , 2013 , 9, 31	2.7	18

51	A Comparative Study of Wavelet Denoising for Multifunction Myoelectric Control 2009 ,		18
50	Robust Eye Movement Recognition Using EOG Signal for Human-Computer Interface. <i>Communications in Computer and Information Science</i> , 2011 , 714-723	0.3	17
49	Canine furious and paralytic rabies: studies of neural tract integrity, blood brain barrier, virus and inflammatory distribution patterns. <i>International Journal of Infectious Diseases</i> , 2012 , 16, e110-e111	10.5	15
48	FPGA implementations of an ADALINE adaptive filter for power-line noise cancellation in surface electromyography signals. <i>Measurement: Journal of the International Measurement Confederation</i> , 2012 , 45, 405-414	4.6	14
47	EMG AMPLITUDE ESTIMATORS BASED ON PROBABILITY DISTRIBUTION FOR MUSCLE-COMPUTER INTERFACE. <i>Fluctuation and Noise Letters</i> , 2013 , 12, 1350016	1.2	13
46	Cell type classifiers for breast cancer microscopic images based on fractal dimension texture analysis of image color layers. <i>Scanning</i> , 2015 , 37, 145-51	1.6	11
45	A speech recognition system based on electromyography for the rehabilitation of dysarthric patients: A Thai syllable study. <i>Biocybernetics and Biomedical Engineering</i> , 2019 , 39, 234-245	5.7	11
44	Comparison of feature evaluation criteria for speech recognition based on electromyography. <i>Medical and Biological Engineering and Computing</i> , 2018 , 56, 1041-1051	3.1	10
43	APPLICATIONS OF VARIANCE FRACTAL DIMENSION: A SURVEY. <i>Fractals</i> , 2014 , 22, 1450003	3.2	10
42	Critical Exponent Analysis Applied to Surface EMG Signals for Gesture Recognition. <i>Metrology and Measurement Systems</i> , 2011 , 18,		10
41	Segmentation of Cancer Cells in Microscopic Images using Neural Network and Mathematical Morphology 2006 ,		10
40	Intracellular Spread of Rabies Virus Is Reduced in the Paralytic Form of Canine Rabies Compared to the Furious Form. <i>PLoS Neglected Tropical Diseases</i> , 2016 , 10, e0004748	4.8	10
39	Feature selection for Thai tone classification based on surface EMG. <i>Procedia Engineering</i> , 2012 , 32, 253-259		9
38	Evaluation of fall detection for the elderly on a variety of subject groups 2009 ,		9
37	Texture Analysis of Breast Cancer Cells in Microscopic Images Using Critical Exponent Analysis Method. <i>Procedia Engineering</i> , 2012 , 32, 232-238		8
36	A Feasibility Study of Fatigue and Muscle Contraction Indices Based on EMG Time-dependent Spectral Analysis. <i>Procedia Engineering</i> , 2012 , 32, 239-245		8
35	EMG denoising estimation based on adaptive wavelet thresholding for multifunction myoelectric control 2009 ,		8
34	Force classification using surface electromyography from various object lengths and wrist postures. <i>Signal, Image and Video Processing</i> , 2019 , 13, 1183-1190	1.6	7

33	Optimal EMG amplitude detectors for muscle-computer interface 2013 ,		7
32	Development of a computer system for strabismus screening 2013 ,		7
31	Fractal Analysis of Surface Electromyography (EMG) Signal for Identify Hand Movements Using Critical Exponent Analysis. <i>Communications in Computer and Information Science</i> , 2011 , 703-713	0.3	7
30	The effects of the force of contraction and elbow joint angle on mean and median frequency analysis for muscle fatigue evaluation. <i>ScienceAsia</i> , 2015 , 41, 263	1.4	5
29	Application of wavelet transform and Shannon energy on R peak detection algorithm 2016 ,		5
28	Analysis of Electromyography in Dynamic Hand Motions Using L-Kurtosis. <i>Applied Mechanics and Materials</i> , 2015 , 781, 604-607	0.3	4
27	Improvement of signal to noise ratio (SNR) in ECG signals based on dual-band continuous wavelet transform 2014 ,		4
26	2008 ,		4
25	Sensor-assisted EMG data recording system 2018 ,		4
24	A robust measure of probability density function of various noises in electromyography (EMG) signal acquisition 2015 ,		3
23	Three steps of Neuron Network classification for EMG-based Thai tones speech recognition 2013 ,		3
22	Probability density of electromyography signal for different levels of contraction of biceps brachii 2013 ,		3
21	Separation of Nonlinear Ultrasound Signals Based on Second-Order Volterra System Identification. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 07GJ01	1.4	3
20	Dual-mode ultrasound phased arrays for noninvasive surgery: post-beamforming image compounding algorithms for enhanced visualization of thermal lesions		3
19	Efficient feature for classification of eye movements using electrooculography signals. <i>Thermal Science</i> , 2016 , 20, 563-572	1.2	3
18	Implementation of a real-time automatic onset time detection for surface electromyography measurement systems using NI myRIO. <i>Thermal Science</i> , 2016 , 20, 591-602	1.2	3
17	Effect of Electrode Skin Impedance on Electromyography Signal Quality 2018 ,		3
16	The optimal electromyography feature for oral muscle movements 2013 ,		2

15	Bootstrap Causal Feature Selection for irrelevant feature elimination 2013,		2
14	Overlapping nuclei segmentation using direction-based flow tracking. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2013 , 8, 387-394	1	2
13	Optimum Quadratic Filters for Nonlinear Ultrasonic Imaging. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 07GJ02	1.4	2
12	Multimodal Data Fusion of Electromyography and Acoustic Signals for Thai Syllable Recognition. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 1997-2006	7.2	2
11	Signal-to-Noise Ratio Estimation in Electromyography Signals Contaminated with Electrocardiography Signals. <i>Fluctuation and Noise Letters</i> , 2020 , 19, 2050027	1.2	2
10	Upper limbs rehabilitation system for stroke patient with biofeedback and force 2013,		1
9	Classifying breast cancer regions in microscopic image using texture analysis and neural network 2013,		1
8	2012,		1
7	Noise removal in ECG signals using the quadratic filter 2012,		1
6	Development of a bioimpedance-based human machine interface for wheelchair control 2009,		1
5	P5B-7 Design of Quadratic Filters for Contrast-Assisted Ultrasonic Imaging. <i>Proceedings IEEE Ultrasonics Symposium</i> , 2007,		1
4	Evaluation of feature projection techniques in object grasp classification using electromyogram signals from different limb positions. <i>PeerJ Computer Science</i> , 8, e949	2.7	1
3	Accounting for SNR in an Algorithm Using Wavelet Transform to Remove ECG Interference from EMG Signals. <i>Fluctuation and Noise Letters</i> , 2020 , 19, 2050001	1.2	0
2	Quadratic B-mode (QB-Mode) Ultrasonic Imaging with Coded Transmit Waveforms. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 7417-20		
1	Two-stage classification of electromyogram signals from hand grasps in the transverse plane.. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2022 , 1-13	2.1	