

Adrian D C Chan

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,019
citations

687363

13
h-index

752698

20
g-index

45
all docs

45
docs citations

45
times ranked

1872
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of interpolation methods for EMG arrays. , 2022, , .		2
2	An Automated Tool to Assess Air Space Size in Histopathology Images of Lung Tissue. , 2022, , .		0
3	Blink and saccade detection from forehead EEG. , 2022, , .		2
4	Automatic Placental Distal Villous Hypoplasia Scoring using a Deep Convolutional Neural Network Regression Model. , 2022, , .		4
5	Fully automated estimation of the mean linear intercept in histopathology images of mouse lung tissue. Journal of Medical Imaging, 2021, 8, 027501.	1.5	3
6	TSEA: An Open Source Python-Based Annotation Tool for Time Series Data. , 2021, , .		0
7	Simulating Motion Artifact Using an Autoregressive Model for Research in Biomedical Signal Quality Analysis. , 2020, 2020, 940-943.		2
8	Concurrent validity of a wearable IMU for objective assessments of functional movement quality and control of the lumbar spine. Journal of Biomechanics, 2019, 97, 109356.	2.1	48
9	Realtime phase-amplitude coupling analysis of micro electrode recorded brain signals. PLoS ONE, 2018, 13, e0204260.	2.5	5
10	Detection of Abnormal Heartbeats in Compressed Electrocardiograms. , 2018, , .		4
11	Evaluation of wearable IMU performance for orientation estimation and motion tracking. , 2018, , .		14
12	Postoperative real-time electrocardiography monitoring detects myocardial ischemia: a case report. Canadian Journal of Anaesthesia, 2017, 64, 411-415.	1.6	4
13	Classifying measured electrocardiogram signal quality using deep belief networks. , 2017, , .		19
14	The Placental Distal Villous Hypoplasia Pattern: Interobserver Agreement and Automated Fractal Dimension as an Objective Metric. Pediatric and Developmental Pathology, 2016, 19, 31-36.	1.0	21
15	A physical action potential generator: design, implementation and evaluation. Frontiers in Neuroscience, 2015, 9, 371.	2.8	4
16	Restricted Isometry Property on Banded Block Toeplitz Matrices with Application to Multi-Channel Convolutional Source Separation. IEEE Transactions on Signal Processing, 2015, 63, 5665-5676.	5.3	12
17	Automated Biosignal Quality Analysis for Electromyography Using a One-Class Support Vector Machine. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 2919-2930.	4.7	82
18	Non-obtrusive electrocardiogram system for the Smart Rollator. , 2012, , .		3

#	ARTICLE	IF	CITATIONS
19	Nonintrusive load monitoring of electrical devices in health smart homes. , 2012, , .		18
20	Electrode-skin impedance changes due to an externally applied force. , 2012, , .		20
21	A Lempelâ€Živ complexity measure for muscle fatigue estimation. Journal of Electromyography and Kinesiology, 2011, 21, 236-241.	1.7	33
22	Surface Electromyographic Signals Using Dry Electrodes. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 3259-3268.	4.7	87
23	Resolving the Limb Position Effect in Myoelectric Pattern Recognition. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 644-651.	4.9	299
24	Wearable EMG analysis for Rehabilitation (WEAR) - Surface electromyography in clinical gait analysis. , 2011, , .		5
25	Integrative learning through the design of an electrocardiogram acquisition system. , 2011, 2011, 3624-7.		3
26	Compression of surface myoelectric signals using MP3 encoding. , 2011, 2011, 5012-5.		1
27	Design of a gel-less two-electrode ECG monitor. , 2010, , .		22
28	Heart rate reliability for the Smart Rollator. , 2010, , .		1
29	Fatigue estimation using a novel multi-fractal detrended fluctuation analysis-based approach. Journal of Electromyography and Kinesiology, 2010, 20, 433-439.	1.7	24
30	Multiplicative multi-fractal modeling of electromyography signals for discerning neuropathic conditions. Journal of Electromyography and Kinesiology, 2010, 20, 1244-1248.	1.7	9
31	Plate analyzer - a yeast colony size measurement system. , 2010, , .		0
32	Identification of <i>Listeria</i> Species Using a Low-Cost Surface-Enhanced Raman Scattering System With Wavelet-Based Signal Processing. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3713-3722.	4.7	20
33	Fractal analysis of surface electromyography signals: A novel power spectrum-based method. Journal of Electromyography and Kinesiology, 2009, 19, 840-850.	1.7	38
34	Wavelet Distance Measure for Person Identification Using Electrocardiograms. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 248-253.	4.7	302
35	Person Identification using Electrocardiograms. , 2006, , .		22
36	Multiexpert Automatic Speech Recognition Using Acoustic and Myoelectric Signals. IEEE Transactions on Biomedical Engineering, 2006, 53, 676-685.	4.2	29

#	ARTICLE	IF	CITATIONS
37	Application of Velocity Filters to Somatosensory Evoked Potential Measurements for Removal of Stimulus Artifact. , 2006, 2006, 6213-6.		1
38	Effects of Force and Joint Angle on Fractal Parameters of the Myoelectric Signal. , 2006, 2006, 3423-6.		1
39	Sound Software Development for Engineering Simulations. , 2006, , .		0
40	Application of Velocity Filters to Somatosensory Evoked Potential Measurements for Removal of Stimulus Artifact. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
41	Effects of Force and Joint Angle on Fractal Parameters of the Myoelectric Signal. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
42	Continuous Myoelectric Control for Powered Prostheses Using Hidden Markov Models. IEEE Transactions on Biomedical Engineering, 2005, 52, 121-124.	4.2	288
43	A Gaussian Mixture Model Based Classification Scheme for Myoelectric Control of Powered Upper Limb Prostheses. IEEE Transactions on Biomedical Engineering, 2005, 52, 1801-1811.	4.2	558
44	Reduction of Stimulus Artifact in Somatosensory Evoked Potentials: Segmented Versus Subthreshold Training. IEEE Transactions on Biomedical Engineering, 2004, 51, 1187-1195.	4.2	9
45	Detection of Atrial Fibrillation in Compressively Sensed Electrocardiogram for Remote Monitoring. Frontiers in Electronics, 0, 3, .	3.2	0