Seyed Kamaledin Setarehdan

List of Publications by Citations

62	643	11	23
papers	citations	h-index	g-index

67	844	3.1	4.39
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
62	Support vector machine-based arrhythmia classification using reduced features of heart rate variability signal. *Artificial Intelligence in Medicine*, **2008**, 44, 51-64	7.4	219
61	New features for automatic classification of human chromosomes: A feasibility study. *Pattern Recognition Letters*, **2006**, 27, 19-28	4.7	49
60	A Review on EEG Signals Based Emotion Recognition. *International Clinical Neuroscience Journal*, **2017**, 4, 118-129	0.3	29
59	Emotion Classification through Nonlinear EEG Analysis Using Machine Learning Methods. *International Clinical Neuroscience Journal*, **2018**, 5, 135-149	0.3	29
58	Emotion recognition through EEG phase space dynamics and Dempster-Shafer theory. *Medical Hypotheses*, **2019**, 127, 34-45	3.8	20
57	Non-linear feature extraction from HRV signal for mortality prediction of ICU cardiovascular patient. *Journal of Medical Engineering and Technology*, **2016**, 40, 87-98	1.8	20
56	An IVUS image-based approach for improvement of coronary plaque characterization. *Computers in Biology and Medicine*, **2013**, 43, 268-80	7	17
55	A novel algorithm for straightening highly curved images of human chromosome. *Pattern Recognition Letters*, **2008**, 29, 1208-1217	4.7	16
54	Analysis of heart rate variability as a predictor of mortality in cardiovascular patients of intensive care unit. *Biocybernetics and Biomedical Engineering*, **2015**, 35, 217-226	5.7	15
53	Automatic media-adventitia IVUS image segmentation based on sparse representation framework and dynamic directional active contour model. *Computers in Biology and Medicine*, **2017**, 89, 561-572	7	13
52	A novel approach to emotion recognition using local subset feature selection and modified Dempster-Shafer theory. *Behavioral and Brain Functions*, **2018**, 14, 17	4.1	12
51	Functional connectivity of the PFC via partial correlation. *Optik*, **2016**, 127, 4748-4754	2.5	11
50	Effective channels in classification and functional connectivity pattern of prefrontal cortex by functional near infrared spectroscopy signals. *Optik*, **2016**, 127, 3271-3275	2.5	11
49	Evoked hemodynamic response estimation using ensemble empirical mode decomposition based adaptive algorithm applied to dual channel functional near infrared spectroscopy (fNIRS). *Journal of Neuroscience Methods*, **2014**, 224, 13-25	3	11
48	A novel EEG-based approach to classify emotions through phase space dynamics. *Signal, Image and Video Processing*, **2019**, 13, 1149-1156	1.6	10
47	A NOVEL METHOD OF EEG-BASED EMOTION RECOGNITION USING NONLINEAR FEATURES VARIABILITY AND DEMPSTER-SHAFER THEORY. *Biomedical Engineering - Applications, Basis and Communications*, **2018**, 30, 1850026	0.6	10
46	CLASSIFICATION OF SCHIZOPHRENIA USING SVM VIA fNIRS. *Biomedical Engineering - Applications, Basis and Communications*, **2018**, 30, 1850008	0.6	9

45	A Novel Approach to Mortality Prediction of ICU Cardiovascular Patient Based on Fuzzy Logic Method. *Biomedical Signal Processing and Control*, **2018**, 45, 160-173	4.9	9
44	Stress assessment by means of heart rate derived from functional near-infrared spectroscopy. *Journal of Biomedical Optics*, **2018**, 23, 1-12	3.5	9
43	A new approach to estimating the evoked hemodynamic response applied to dual channel functional near infrared spectroscopy. *Computers in Biology and Medicine*, **2017**, 84, 9-19	7	8
42	IQ estimation by means of EEG-fNIRS recordings during a logical-mathematical intelligence test. *Computers in Biology and Medicine*, **2019**, 110, 218-226	7	8
41	Modeling the connections of brain regions in children with autism using cellular neural networks and electroencephalography analysis. *Artificial Intelligence in Medicine*, **2018**, 89, 40-50	7.4	8
40	New algorithm of mortality risk prediction for cardiovascular patients admitted in intensive care unit. *International Journal of Clinical and Experimental Medicine*, **2015**, 8, 8916-26		8
39	A novel approach for quantification and analysis of the color Doppler twinkling artifact with application in noninvasive surface roughness characterization: an in vitro phantom study. *Journal of Ultrasound in Medicine*, **2014**, 33, 597-610	2.9	7
38	Detecting intention to execute the next movement while performing current movement from EEG using global optimal constrained ICA. *Computers in Biology and Medicine*, **2018**, 99, 63-75	7	7
37	Attention level quantification during a modified stroop color word experiment: an fNIRS based study **2015**,		6
36	Appropriate twinkling frequency and inter-sources distance selection in SSVEP-based HCI systems **2011**,		6
35	Classification of Breast Cancer Lesions in Ultrasound Images by Using Attention Layer and Loss Ensemble in Deep Convolutional Neural Networks. *Diagnostics*, **2021**, 11,	3.8	6
34	Emotion recognition using EEG phase space dynamics and Poincare intersections. *Biomedical Signal Processing and Control*, **2020**, 59, 101918	4.9	5
33	Enhancement of optical penetration depth of LED-based NIRS systems by comparing different beam profiles. *Biomedical Physics and Engineering Express*, **2019**, 5, 065004	1.5	5
32	Classification of fNIRS based brain hemodynamic response to mental arithmetic tasks **2017**,		5
31	Study of the effects of age and body mass index on the carotid wall vibration: extraction methodology and analysis. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, **2014**, 228, 714-29	1.7	5
30	Quality analysis of heart rate derived from functional near-infrared spectroscopy in stress assessment. *Informatics in Medicine Unlocked*, **2020**, 18, 100286	5.3	5
29	Designing a model to detect the brain connections abnormalities in children with autism using 3D-cellular neural networks. *Journal of Integrative Neuroscience*, **2018**, 17, 391-411	1.5	4
28	ECG power line interference removal using combination of FFT and adaptive non-linear noise estimator **2013**,		4

27	Type2 fuzzy set based automatic shadow region segmentation in intra vascular ultrasound images **2011**,		4
26	Global optimal constrained ICA and its application in extraction of movement related cortical potentials from single-trial EEG signals. *Computer Methods and Programs in Biomedicine*, **2018**, 166, 155-169	6.9	3
25	DFA- and DWT- based features of HRV signal for automatic sleep staging **2012**,		3
24	Performance assessment of high-density diffuse optical topography regarding source-detector array topology. *PLoS ONE*, **2020**, 15, e0230206	3.7	2
23	THE EFFECTIVENESS OF MUSIC ON HUMAN BIOLOGICAL SIGNALS. *Biomedical Engineering - Applications, Basis and Communications*, **2016**, 28, 1650002	0.6	2
22	Simulation of the twinkling artifact in color flow Doppler sonography: A phase noise hypothesis validation **2011**,		2
21	Fuzzy-based purest wavelength selection from spectral data. *Journal of Chemometrics*, **2006**, 20, 239-246	1.6	2
20	Classification of Mental Stress Levels by Analyzing fNIRS Signal Using Linear and Non-linear Features. *International Clinical Neuroscience Journal*, **2018**, 5, 55-61	0.3	2
19	Finite element analysis of thermally actuated medical stent and staple implants using shape memory alloy. *International Journal of Nanotechnology*, **2017**, 14, 66	1.5	1
18	Analysis of backscattered ultrasound rf echoes from adjacent scan lines for surface roughness characterization: a phantom study **2015**,		1
17	The 2017 and 2018 Iranian Brain-Computer Interface Competitions. *Journal of Medical Signals and Sensors*, **2020**, 10, 208-216	1	1
16	Optimal sub-harmonic injection-locked MICS band transmitter for wireless CW-fNIRS systems. *International Journal of Circuit Theory and Applications*, **2021**, 49, 3186	2	1
15	Accurate Stress Assessment based on functional Near Infrared Spectroscopy using Deep Learning Approach **2019**,		1
14	A robust time delay estimation method for ultrasonic echo signals and elastography. *Computers in Biology and Medicine*, **2021**, 136, 104653	7	1
13	Noninvasive Prediction of Renal Stone Surface Irregularities by Numerical Analysis of the Color Doppler Twinkling Artifact: An Ex Vivo Study. *Journal of Ultrasound in Medicine*, **2018**, 37, 1211-1224	2.9	0
12	Estimation of the depth of anesthesia by using a multioutput least-square support vector regression. *Turkish Journal of Electrical Engineering and Computer Sciences*, **2018**, 26, 2793-2802	0.9	0
11	AUTOMATIC AND CONCURRENT DETERMINATION OF OPTIMAL VALUES OF NONLOCAL MEANS FILTERING PARAMETERS BASED ON BAYESIAN FORMULATION IN IVUS IMAGES. *Biomedical Engineering - Applications, Basis and Communications*, **2015**, 27, 1550052	0.6	
10	Measuring the effect of aging on vibrations of the carotid artery wall using empirical mode decomposition method. *Journal of Medical Signals and Sensors*, **2014**, 4, 27-34	1	

LIST OF PUBLICATIONS

9	The Effective Brain Areas in Recognition of Dyslexia. *International Clinical Neuroscience Journal*, **2020**, 7, 147-152	0.3
8	Automatic anesthesia depth staging using entropy measures and relative power of electroencephalogram frequency bands. *Australasian Physical and Engineering Sciences in Medicine*, **2018**, 41, 919-929	1.9
7	Dynamic causal modeling of evoked responses during emergency braking: an ERP study.. *Cognitive Neurodynamics*, **2022**, 16, 353-363	4.2
6	Performance assessment of high-density diffuse optical topography regarding source-detector array topology **2020**, 15, e0230206	
5	Performance assessment of high-density diffuse optical topography regarding source-detector array topology **2020**, 15, e0230206	
4	Performance assessment of high-density diffuse optical topography regarding source-detector array topology **2020**, 15, e0230206	
3	Performance assessment of high-density diffuse optical topography regarding source-detector array topology **2020**, 15, e0230206	
2	Performance assessment of high-density diffuse optical topography regarding source-detector array topology **2020**, 15, e0230206	
1	Subcutaneous adipose tissue thickness determination using ultrasound signals processing: A phantom study. *Biomedical Signal Processing and Control*, **2022**, 77, 103744	4.9