

# Seyed Kamaledin Setarehdan

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

1,014  
citations

567281  
15  
h-index

477307  
29  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1097  
citing authors

#	ARTICLE	IF	CITATIONS
1	Support vector machine-based arrhythmia classification using reduced features of heart rate variability signal. Artificial Intelligence in Medicine, 2008, 44, 51-64.	6.5	298
2	New features for automatic classification of human chromosomes: A feasibility study. Pattern Recognition Letters, 2006, 27, 19-28.	4.2	70
3	A Review on EEG Signals Based Emotion Recognition. International Clinical Neuroscience Journal, 2017, 4, 118-129.	0.1	57
4	Emotion Classification through Nonlinear EEG Analysis Using Machine Learning Methods. International Clinical Neuroscience Journal, 2018, 5, 135-149.	0.1	43
5	Emotion recognition through EEG phase space dynamics and Dempster-Shafer theory. Medical Hypotheses, 2019, 127, 34-45.	1.5	38
6	Non-linear feature extraction from HRV signal for mortality prediction of ICU cardiovascular patient. Journal of Medical Engineering and Technology, 2016, 40, 87-98.	1.4	31
7	A novel algorithm for straightening highly curved images of human chromosome. Pattern Recognition Letters, 2008, 29, 1208-1217.	4.2	28
8	Effective channels in classification and functional connectivity pattern of prefrontal cortex by functional near infrared spectroscopy signals. Optik, 2016, 127, 3271-3275.	2.9	25
9	A novel approach to emotion recognition using local subset feature selection and modified Dempster-Shafer theory. Behavioral and Brain Functions, 2018, 14, 17.	3.3	23
10	Functional connectivity of the PFC via partial correlation. Optik, 2016, 127, 4748-4754.	2.9	22
11	CLASSIFICATION OF SCHIZOPHRENIA USING SVM VIA fNIRS. Biomedical Engineering - Applications, Basis and Communications, 2018, 30, 1850008.	0.6	21
12	Emotion recognition using EEG phase space dynamics and Poincare intersections. Biomedical Signal Processing and Control, 2020, 59, 101918.	5.7	21
13	Classification of Breast Cancer Lesions in Ultrasound Images by Using Attention Layer and Loss Ensemble in Deep Convolutional Neural Networks. Diagnostics, 2021, 11, 1859.	2.6	21
14	An IVUS image-based approach for improvement of coronary plaque characterization. Computers in Biology and Medicine, 2013, 43, 268-280.	7.0	20
15	A Novel Approach to Mortality Prediction of ICU Cardiovascular Patient Based on Fuzzy Logic Method. Biomedical Signal Processing and Control, 2018, 45, 160-173.	5.7	20
16	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.	5.9	19
17	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.	7.0	19
18	A novel EEG-based approach to classify emotions through phase space dynamics. Signal, Image and Video Processing, 2019, 13, 1149-1156.	2.7	19

#	ARTICLE	IF	CITATIONS
19	A NOVEL METHOD OF EEG-BASED EMOTION RECOGNITION USING NONLINEAR FEATURES VARIABILITY AND DEMPSTER'S SHAFFER THEORY. Biomedical Engineering - Applications, Basis and Communications, 2018, 30, 1850026.	0.6	17
20	IQ estimation by means of EEG-fNIRS recordings during a logical-mathematical intelligence test. Computers in Biology and Medicine, 2019, 110, 218-226.	7.0	16
21	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.	2.5	14
22	A Novel Approach for Quantification and Analysis of the Color Doppler Twinkling Artifact With Application in Noninvasive Surface Roughness Characterization. Journal of Ultrasound in Medicine, 2014, 33, 597-610.	1.7	13
23	Attention level quantification during a modified stroop color word experiment: an fNIRS based study. , 2015, , .		12
24	Stress assessment by means of heart rate derived from functional near-infrared spectroscopy. Journal of Biomedical Optics, 2018, 23, 1.	2.6	12
25	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.	7.0	11
26	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.	6.5	10
27	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.	1.3	10
28	Appropriate twinkling frequency and inter-sources distance selection in SSVEP-based HCI systems. , 2011, , .		8
29	ECG power line interference removal using combination of FFT and adaptive non-linear noise estimator. , 2013, , .		8
30	Enhancement of optical penetration depth of LED-based NIRS systems by comparing different beam profiles. Biomedical Physics and Engineering Express, 2019, 5, 065004.	1.2	8
31	Quality analysis of heart rate derived from functional near-infrared spectroscopy in stress assessment. Informatics in Medicine Unlocked, 2020, 18, 100286.	3.4	8
32	Classification of fNIRS based brain hemodynamic response to mental arithmetic tasks. , 2017, , .		7
33	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.	7.0	7
34	Classification of Mental Stress Levels by Analyzing fNIRS Signal Using Linear and Non-linear Features. International Clinical Neuroscience Journal, 2018, 5, 55-61.	0.1	6
35	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, 714-729.	1.8	5
36	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.	1.7	5

#	ARTICLE	IF	CITATIONS
37	Type2 fuzzy set based automatic shadow region segmentation in intra vascular ultrasound images. , 2011, , .		4
38	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.	4.7	4
39	Accurate Stress Assessment based on functional Near Infrared Spectroscopy using Deep Learning Approach. , 2019, , .		4
40	Performance assessment of high-density diffuse optical topography regarding source-detector array topology. PLoS ONE, 2020, 15, e0230206.	2.5	4
41	Simulation of the twinkling artifact in color flow Doppler sonography: A phase noise hypothesis validation. , 2011, , .		3
42	DFA- and DWT- based features of HRV signal for automatic sleep staging. , 2012, , .		3
43	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.	1.7	3
44	Fuzzy-based purest wavelength selection from spectral data. Journal of Chemometrics, 2006, 20, 239-246.	1.3	2
45	THE EFFECTIVENESS OF MUSIC ON HUMAN BIOLOGICAL SIGNALS. Biomedical Engineering - Applications, Basis and Communications, 2016, 28, 1650002.	0.6	2
46	Sleep staging with deep structured neural net using Gabor layer and data augmentation. Turkish Journal of Electrical Engineering and Computer Sciences, 0, , .	1.4	2
47	A robust time delay estimation method for ultrasonic echo signals and elastography. Computers in Biology and Medicine, 2021, 136, 104653.	7.0	2
48	The Effective Brain Areas in Recognition of Dyslexia. International Clinical Neuroscience Journal, 2020, 7, 147-152.	0.1	2
49	Analysis of backscattered ultrasound RF echoes from adjacent scan lines for surface roughness characterization: a phantom study amoon jamzad1,. , 2015, , .		1
50	Finite element analysis of thermally actuated medical stent and staple implants using shape memory alloy. International Journal of Nanotechnology, 2017, 14, 66.	0.2	1
51	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.	1.4	1
52	Optimal subâ€harmonic injectionâ€clocked MICS band transmitter for wireless CWâ€NIRS systems. International Journal of Circuit Theory and Applications, 2021, 49, 3186.	2.0	1
53	Dynamic causal modeling of evoked responses during emergency braking: an ERP study. Cognitive Neurodynamics, 2022, 16, 353-363.	4.0	1
54	A Study on the Effect of the Inter-Sources Distance on the Performance of the SSVEP-Based BCI Systems. American Journal of Biomedical Engineering, 2012, 2, 24-31.	0.9	1

#	ARTICLE	IF	CITATIONS
55	The 2017 and 2018 Iranian Brain-Computer Interface Competitions. Journal of Medical Signals and Sensors, 2020, 10, 208-216.	1.0	1
56	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	0
57	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.	1.3	0
58	Evaluation and Diagnosis of Brain Death: a Non-Invasive Pilot Study Using Functional Near-Infrared Spectroscopy (fNIRS). , 2020, , .		0
59	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.	1.0	0
60	Title is missing!. , 2020, 15, e0230206.		0
61	Title is missing!. , 2020, 15, e0230206.		0
62	Title is missing!. , 2020, 15, e0230206.		0
63	Title is missing!. , 2020, 15, e0230206.		0
64	Title is missing!. , 2020, 15, e0230206.		0
65	Subcutaneous adipose tissue thickness determination using ultrasound signals processing: A phantom study. Biomedical Signal Processing and Control, 2022, 77, 103744.	5.7	0