

# Seyed Kamaleddin Setarehdan

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

1,014  
citations

566801

15  
h-index

476904

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. <i>Artificial Intelligence in Medicine</i> , 2008, 44, 51-64.	3.8	298
2	New features for automatic classification of human chromosomes: A feasibility study. <i>Pattern Recognition Letters</i> , 2006, 27, 19-28.	2.6	70
3	A Review on EEG Signals Based Emotion Recognition. <i>International Clinical Neuroscience Journal</i> , 2017, 4, 118-129.	0.1	57
4	Emotion Classification through Nonlinear EEG Analysis Using Machine Learning Methods. <i>International Clinical Neuroscience Journal</i> , 2018, 5, 135-149.	0.1	43
5	Emotion recognition through EEG phase space dynamics and Dempster-Shafer theory. <i>Medical Hypotheses</i> , 2019, 127, 34-45.	0.8	38
6	Non-linear feature extraction from HRV signal for mortality prediction of ICU cardiovascular patient. <i>Journal of Medical Engineering and Technology</i> , 2016, 40, 87-98.	0.8	31
7	A novel algorithm for straightening highly curved images of human chromosome. <i>Pattern Recognition Letters</i> , 2008, 29, 1208-1217.	2.6	28
8	Effective channels in classification and functional connectivity pattern of prefrontal cortex by functional near infrared spectroscopy signals. <i>Optik</i> , 2016, 127, 3271-3275.	1.4	25
9	A novel approach to emotion recognition using local subset feature selection and modified Dempster-Shafer theory. <i>Behavioral and Brain Functions</i> , 2018, 14, 17.	1.4	23
10	Functional connectivity of the PFC via partial correlation. <i>Optik</i> , 2016, 127, 4748-4754.	1.4	22
11	CLASSIFICATION OF SCHIZOPHRENIA USING SVM VIA fNIRS. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2018, 30, 1850008.	0.3	21
12	Emotion recognition using EEG phase space dynamics and Poincare intersections. <i>Biomedical Signal Processing and Control</i> , 2020, 59, 101918.	3.5	21
13	Classification of Breast Cancer Lesions in Ultrasound Images by Using Attention Layer and Loss Ensemble in Deep Convolutional Neural Networks. <i>Diagnostics</i> , 2021, 11, 1859.	1.3	21
14	An IVUS image-based approach for improvement of coronary plaque characterization. <i>Computers in Biology and Medicine</i> , 2013, 43, 268-280.	3.9	20
15	A Novel Approach to Mortality Prediction of ICU Cardiovascular Patient Based on Fuzzy Logic Method. <i>Biomedical Signal Processing and Control</i> , 2018, 45, 160-173.	3.5	20
16	Analysis of heart rate variability as a predictor of mortality in cardiovascular patients of intensive care unit. <i>Biocybernetics and Biomedical Engineering</i> , 2015, 35, 217-226.	3.3	19
17	Automatic media-adventitia IVUS image segmentation based on sparse representation framework and dynamic directional active contour model. <i>Computers in Biology and Medicine</i> , 2017, 89, 561-572.	3.9	19
18	A novel EEG-based approach to classify emotions through phase space dynamics. <i>Signal, Image and Video Processing</i> , 2019, 13, 1149-1156.	1.7	19

#	ARTICLE	IF	CITATIONS
19	A NOVEL METHOD OF EEG-BASED EMOTION RECOGNITION USING NONLINEAR FEATURES VARIABILITY AND DEMPSTER'S SHAFER THEORY. Biomedical Engineering - Applications, Basis and Communications, 2018, 30, 1850026.	0.3	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.	3.9	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.	1.3	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.	0.8	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.	1.4	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.	3.9	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.	3.8	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.	0.6	8
31	Quality analysis of heart rate derived from functional near-infrared spectroscopy in stress assessment. Informatics in Medicine Unlocked, 2020, 18, 100286.	1.9	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.	3.9	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.	1.0	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.	0.8	5

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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.	2.6	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.	1.1	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.	0.8	3
44	Fuzzy-based purest wavelength selection from spectral data. Journal of Chemometrics, 2006, 20, 239-246.	0.7	2
45	THE EFFECTIVENESS OF MUSIC ON HUMAN BIOLOGICAL SIGNALS. Biomedical Engineering - Applications, Basis and Communications, 2016, 28, 1650002.	0.3	2
46	Sleep staging with deep structured neural net using Gabor layer and data augmentation. Turkish Journal of Electrical Engineering and Computer Sciences, 0, , .	0.9	2
47	A robust time delay estimation method for ultrasonic echo signals and elastography. Computers in Biology and Medicine, 2021, 136, 104653.	3.9	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.	0.1	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.	0.9	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.	1.3	1
53	Dynamic causal modeling of evoked responses during emergency braking: an ERP study. Cognitive Neurodynamics, 2022, 16, 353-363.	2.3	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.	0.5	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.	0.3	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.	1.4	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.	0.5	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.	3.5	0