Emad Fatemizadeh

List of Publications by Year
in descending order

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76	666	687363 13	610901 24
papers	citations	h-index	g-index

77	77	77	838
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effective connectivity inference in the whole-brain network by using rDCM method for investigating the distinction between emotional states in fMRI data. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2023, 11, 453-466.	1.9	0
2	Identifying brain functional connectivity alterations during different stages of Alzheimerâ€™s disease. International Journal of Neuroscience, 2022, 132, 1005-1013.	1.6	5
3	Automatic detection of respiratory events during sleep from Polysomnography data using Layered Hidden Markov Model. Physiological Measurement, 2022, 43, 015002.	2.1	0
4	Robust Registration of Medical Images in the Presence of Spatially-Varying Noise. Algorithms, 2022, 15, 58.	2.1	0
5	fMRI functional connectivity analysis via kernel graph in Alzheimerâ€™s disease. Signal, Image and Video Processing, 2021, 15, 715-723.	2.7	1
6	Detection of Apnea Bradycardia from ECG Signals of Preterm Infants Using Layered Hidden Markov Model. Annals of Biomedical Engineering, 2021, 49, 2159-2169.	2.5	6
7	Deep sparse graph functional connectivity analysis in AD patients using fMRI data. Computer Methods and Programs in Biomedicine, 2021, 201, 105954.	4.7	3
8	Spatiotemporal registration and fusion of transthoracic echocardiography and volumetric coronary artery tree. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1493-1505.	2.8	0
9	3D dilated and residual convolutional neural network for COVID-19 detection from the chest computed tomography. , 2021, , .		0
10	Attention-based deep learning segmentation: Application to brain tumor delineation. , 2021, , .		18
11	A new deep convolutional neural network design with efficient learning capability: Application to CT image synthesis from MRI. Medical Physics, 2020, 47, 5158-5171.	3.0	71
12	Investigating time-varying functional connectivity derived from the Jackknife Correlation method for distinguishing between emotions in fMRI data. Cognitive Neurodynamics, 2020, 14, 457-471.	4.0	9
13	Noninvasive fetal ECG extraction using doubly constrained block-term decomposition. Mathematical Biosciences and Engineering, 2020, 17, 144-159.	1.9	7
14	Multiclass classification of patients during different stages of Alzheimerâ€™s disease using fMRI time-series. Biomedical Physics and Engineering Express, 2020, 6, 055022.	1.2	1
15	Optical Radiomic Signatures Derived from Optical Coherence Tomography Images Improve Identification of Melanoma. Cancer Research, 2019, 79, 2021-2030.	0.9	88
16	A novel convolutional neural network with high convergence rate: Application to CT synthesis from MR images. , 2019, , .		2
17	An Adaptive Bayesian Source Separation Method for Intensity Estimation of Facial AUs. IEEE Transactions on Affective Computing, 2019, 10, 144-154.	8.3	6
18	Transcranial DC stimulation modifies functional connectivity of largeâ€scale brain networks in abstinent methamphetamine users. Brain and Behavior, 2018, 8, e00922.	2.2	63

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19	Image Registration Based on Low Rank Matrix: Rank-Regularized SSD. IEEE Transactions on Medical Imaging, 2018, 37, 138-150.	8.9	22
20	Denoising of genetic switches based on Parrondoâ€™s paradox. Physica A: Statistical Mechanics and Its Applications, 2018, 493, 410-420.	2.6	6
21	A novel frame rate up-conversion method to decrease blocking and blurring factors using none rigid image registration on medical videos. , 2018, , .		0
22	Cardiac contraction motion compensation in gated myocardial perfusion SPECT: A comparative study. Physica Medica, 2018, 49, 77-82.	0.7	4
23	A joint dictionary learning and regression model for intensity estimation of facial AUs. Journal of Visual Communication and Image Representation, 2017, 47, 1-9.	2.8	2
24	Canonical polyadic decomposition for principal diffusion direction extraction in diffusion weighted imaging. , 2017, , .		0
25	Sparse registration of diffusion weighted images. Computer Methods and Programs in Biomedicine, 2017, 151, 33-43.	4.7	5
26	Optical Coherence Tomography Technology and Quality Improvement Methods for Optical Coherence Tomography Images of Skin: A Short Review. Biomedical Engineering and Computational Biology, 2017, 8, 117959721771347.	2.0	30
27	A Clustering-Based Algorithm for De Novo Motif Discovery in DNA Sequences. , 2017, , .		0
28	Functional Brain Networks in Parkinson's Disease. , 2017, , .		2
29	Hierarchical Enhancement of Optical Coherence Tomography Images. , 2017, , .		1
30	Medical image registration using sparse coding of image patches. Computers in Biology and Medicine, 2016, 73, 56-70.	7.0	12
31	Laplacian mixture model point based registration. , 2015, , .		1
32	Pain level estimation in video sequences of face using incorporation of statistical features of frames. , 2015, , .		2
33	Unsupervised Versus Supervised Methods for Categorizing Mental States From fMRI Data1. Journal of Medical Devices, Transactions of the ASME, 2015, 9, .	0.7	1
34	Overlapped cells separation algorithm based on morphological system using distance minimums in microscopic images. , 2015, , .		0
35	GMWASC: Graph matching with weighted affine and sparse constraints. , 2015, , .		0
36	Interpolation of orientation distribution functions in diffusion weighted imaging using multi-tensor model. Journal of Neuroscience Methods, 2015, 253, 28-37.	2.5	3

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37	RISM: Single-Modal Image Registration via Rank-Induced Similarity Measure. IEEE Transactions on Image Processing, 2015, 24, 5567-5580.	9.8	14
38	Medical images stabilization using sparse-induced similarity measure. , 2015, , .		1
39	Robust Huber similarity measure for image registration in the presence of spatially-varying intensity distortion. Signal Processing, 2015, 109, 54-68.	3.7	14
40	Liveness Detection in Face Identification Systems: Using Zernike Moments and Fresnel Transformation of Facial Images. Indian Journal of Science and Technology, 2015, 8, 523.	0.7	10
41	Sparse representation-based super-resolution for diffusion weighted images. , 2014, , .		0
42	Online undersampled dynamic MRI reconstruction using mutual information. , 2014, , .		0
43	Investigation of Brain Default Network's activation in autism spectrum disorders using Group Independent Component Analysis. , 2014, , .		1
44	Sparseâ€induced similarity measure: monoâ€modal image registration via sparseâ€induced similarity measure. IET Image Processing, 2014, 8, 728-741.	2.5	23
45	Echocardiography frames quantification by empirical mode decomposition method. , 2014, , .		0
46	PCA-based dictionary building for accurate facial expression recognition via sparse representation. Journal of Visual Communication and Image Representation, 2014, 25, 1082-1092.	2.8	87
47	A two layer texture modeling based on curvelet transform and spiculated lesion filters for recognizing architectural distortion in mammograms. , 2014, , .		2
48	Non-negative sparse decomposition based on constrained smoothed â„“0 norm. Signal Processing, 2014, 100, 42-50.	3.7	14
49	MRI-PET image fusion based on NSCT transform using local energy and local variance fusion rules. Journal of Medical Engineering and Technology, 2014, 38, 211-219.	1.4	29
50	MRI image reconstruction via new K-space sampling scheme based on separable transform. , 2013, , .		0
51	An implementation of a CBIR system based on SVM learning scheme. Journal of Medical Engineering and Technology, 2013, 37, 43-47.	1.4	12
52	Automatic segmentation of brain MRI in high-dimensional local and non-local feature space based on sparse representation. Magnetic Resonance Imaging, 2013, 31, 733-741.	1.8	9
53	A textural approach for recognizing architectural distortion in mammograms. , 2013, , .		3
54	A FRAMEWORK FOR CONTENT-BASED HUMAN BRAIN MAGNETIC RESONANCE IMAGES RETRIEVAL USING SALIENCY MAP. Biomedical Engineering - Applications, Basis and Communications, 2013, 25, 1350045.	0.6	0

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55	A Content-Based Approach to Medical Images Retrieval. International Journal of Healthcare Information Systems and Informatics, 2013, 8, 15-27.	0.9	0
56	Interpolation of orientation distribution functions (ODFs) in Q-ball imaging. , 2012, , .		0
57	AN INTERACTIVE CBIR SYSTEM BASED ON ANFIS LEARNING SCHEME FOR HUMAN BRAIN MAGNETIC RESONANCE IMAGES RETRIEVAL. Biomedical Engineering - Applications, Basis and Communications, 2012, 24, 27-36.	0.6	1
58	ADAPTIVE SPARSE REPRESENTATION FOR MRI NOISE REMOVAL. Biomedical Engineering - Applications, Basis and Communications, 2012, 24, 383-394.	0.6	0
59	Automatic B-spline image registration using histogram-based landmark extraction. , 2012, , .		6
60	A new ROI extraction method for FKP images using global intensity. , 2012, , .		4
61	Finding protein active sites using approximate sub-graph isomorphism. , 2011, , .		0
62	MMRO: A Feature Selection Criterion for MR Images Based on Alpha Stable Filter Responses. , 2011, , .		1
63	Effect of Different Diffusion Maps on Registration Results. , 2011, , .		0
64	An entropy based method for activation detection of functional MRI data using Independent Component Analysis. , 2010, , .		1
65	ROI-BASED 3D HUMAN BRAIN MAGNETIC RESONANCE IMAGES COMPRESSION USING ADAPTIVE MESH DESIGN AND REGION-BASED DISCRETE WAVELET TRANSFORM. International Journal of Wavelets, Multiresolution and Information Processing, 2010, 08, 407-430.	1.3	3
66	A NEW MATHEMATICAL APPROACH FOR DETECTION OF ACTIVE AREA IN HUMAN BRAIN fMRI USING NONLINEAR MODEL. Biomedical Engineering - Applications, Basis and Communications, 2010, 22, 409-418.	0.6	1
67	Gradient vector flow snake segmentation of breast lesions in Dynamic Contrast-Enhanced MR images. , 2010, , .		5
68	Spectral clustering approach with sparsifying technique for functional connectivity detection in the resting brain. , 2010, , .		0
69	Content based mammogram image retrieval based on the multiclass visual problem. , 2010, , .		1
70	A CBIR System for Human Brain Magnetic Resonance Image Indexing. International Journal of Computer Applications, 2010, 7, 33-37.	0.2	15
71	Clustering method for fMRI activation detection using optimal number of clusters. , 2009, , .		1
72	Extracting activated regions of fMRI data using unsupervised learning. , 2009, , .		1

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73	Application of independent component analysis for activation detection in functional magnetic resonance imaging (FMRI) data. , 2009, , .		2
74	Designing an illumination effect canceling filter in facial images for multi-view face detection and recognition in images with complex background. , 2008, , .		1
75	Multiple Sclerosis Diagnosis Based on Analysis of Subbands of 2-D Wavelet Transform Applied on MR-images. , 2007, , .		8
76	Automatic landmark extraction from image data using modified growing neural gas network. IEEE Transactions on Information Technology in Biomedicine, 2003, 7, 77-85.	3.2	25