

Mirza Faisal Beg

List of Publications by Year in descending order

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63
papers

2,014
citations

236925
25
h-index

276875
41
g-index

64
all docs

64
docs citations

64
times ranked

2974
citing authors

#	ARTICLE	IF	CITATIONS
1	3D hemisphere-based convolutional neural network for whole-brain MRI segmentation. Computerized Medical Imaging and Graphics, 2022, 95, 102000.	5.8	12
2	A functional proportional hazard cure rate model for interval-censored data. Statistical Methods in Medical Research, 2022, 31, 154-168.	1.5	2
3	Two-Dimensional Functional Principal Component Analysis for Image Feature Extraction. Journal of Computational and Graphical Statistics, 2022, 31, 1127-1140.	1.7	4
4	Clinical explainable differential diagnosis of polypoidal choroidal vasculopathy and age-related macular degeneration using deep learning. Computers in Biology and Medicine, 2022, 143, 105319.	7.0	13
5	Machine Learning Based Multimodal Neuroimaging Genomics Dementia Score for Predicting Future Conversion to Alzheimer's Disease. Journal of Alzheimer's Disease, 2022, 87, 1345-1365.	2.6	7
6	Network-wise concordance of multimodal neuroimaging features across the Alzheimer's disease continuum. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2022, 14, e12304.	2.4	4
7	Construction of MRI-Based Alzheimer's Disease Score Based on Efficient 3D Convolutional Neural Network: Comprehensive Validation on 7,902 Images from a Multi-Center Dataset. Journal of Alzheimer's Disease, 2021, 79, 47-58.	2.6	17
8	Blinded Clinical Evaluation for Dementia of Alzheimer's Type Classification Using FDG-PET: A Comparison Between Feature-Engineered and Non-Feature-Engineered Machine Learning Methods. Journal of Alzheimer's Disease, 2021, 80, 715-726.	2.6	11
9	Early diagnosis of Alzheimer's disease on ADNI data using novel longitudinal score based on functional principal component analysis. Journal of Medical Imaging, 2021, 8, 024502.	1.5	4
10	Structural volume and cortical thickness differences between males and females in cognitively normal, cognitively impaired and Alzheimer's dementia population. Neurobiology of Aging, 2021, 106, 1-11.	3.1	7
11	Effect of optical coherence tomography and angiography sampling rate towards diabetic retinopathy severity classification. Biomedical Optics Express, 2021, 12, 6660.	2.9	2
12	FDG-PET in presymptomatic C9orf72 mutation carriers. NeuroImage: Clinical, 2021, 31, 102687.	2.7	16
13	Federated Learning for Microvasculature Segmentation and Diabetic Retinopathy Classification of OCT Data. Ophthalmology Science, 2021, 1, 100069.	2.5	40
14	LF-UNet – A novel anatomical-aware dual-branch cascaded deep neural network for segmentation of retinal layers and fluid from optical coherence tomography images. Computerized Medical Imaging and Graphics, 2021, 94, 101988.	5.8	16
15	Comparison of Speckle Noise Filters on Crop Classification Based on Sentinel-1 Sar Time-Series. , 2021, , .		0
16	Quantifying brain metabolism from FDG-PET images into a probability of Alzheimer's dementia score. Human Brain Mapping, 2020, 41, 5-16.	3.6	35
17	Deep learning method for localization and segmentation of abdominal CT. Computerized Medical Imaging and Graphics, 2020, 85, 101776.	5.8	36
18	Microvasculature Segmentation and Intercapillary Area Quantification of the Deep Vascular Complex Using Transfer Learning. Translational Vision Science and Technology, 2020, 9, 38.	2.2	24

#	ARTICLE	IF	CITATIONS
19	Amyloid Beta Immunoreactivity in the Retinal Ganglion Cell Layer of the Alzheimer's Eye. <i>Frontiers in Neuroscience</i> , 2020, 14, 758.	2.8	42
20	In vivo Retinal Fluorescence Imaging With Curcumin in an Alzheimer Mouse Model. <i>Frontiers in Neuroscience</i> , 2020, 14, 713.	2.8	34
21	Substantially thinner internal granular layer and reduced molecular layer surface in the cerebellar cortex of the Tc1 mouse model of down syndrome – a comprehensive morphometric analysis with active staining contrast-enhanced MRI. <i>NeuroImage</i> , 2020, 223, 117271.	4.2	7
22	Differential Diagnosis of Frontotemporal Dementia, Alzheimer's Disease, and Normal Aging Using a Multi-Scale Multi-Type Feature Generative Adversarial Deep Neural Network on Structural Magnetic Resonance Images. <i>Frontiers in Neuroscience</i> , 2020, 14, 853.	2.8	34
23	Ensemble Deep Learning for Diabetic Retinopathy Detection Using Optical Coherence Tomography Angiography. <i>Translational Vision Science and Technology</i> , 2020, 9, 20.	2.2	76
24	Using machine learning to quantify structural <scp>MRI</scp> neurodegeneration patterns of Alzheimer's disease into dementia score: Independent validation on 8,834 images from ADNI, AIBL, OASIS, and MIRIAD databases. <i>Human Brain Mapping</i> , 2020, 41, 4127-4147.	3.6	51
25	Evaluation of automated computed tomography segmentation to assess body composition and mortality associations in cancer patients. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 1258-1269.	7.3	79
26	Semi-supervised deep learning based 3D analysis of the peripapillary region. <i>Biomedical Optics Express</i> , 2020, 11, 3843.	2.9	13
27	Muscle segmentation in axial computed tomography (CT) images at the lumbar (L3) and thoracic (T4) levels for body composition analysis. <i>Computerized Medical Imaging and Graphics</i> , 2019, 75, 47-55.	5.8	61
28	Deep-learning based multiclass retinal fluid segmentation and detection in optical coherence tomography images using a fully convolutional neural network. <i>Medical Image Analysis</i> , 2019, 54, 100-110.	11.6	103
29	The Contribution Plot: Decomposition and Graphical Display of the RV Coefficient, with Application to Genetic and Brain Imaging Biomarkers of Alzheimer's Disease. <i>Human Heredity</i> , 2019, 84, 59-72.	0.8	2
30	Quantitative assessment of field strength, total intracranial volume, sex, and age effects on the goodness of harmonization for volumetric analysis on the ADNI database. <i>Human Brain Mapping</i> , 2019, 40, 1507-1527.	3.6	35
31	Grant Report on PREDICT-ADFTD: Multimodal Imaging Prediction of AD/FTD and Differential Diagnosis. <i>Journal of Psychiatry and Brain Science</i> , 2019, 4, .	0.5	3
32	Multiscale deep neural network based analysis of FDG-PET images for the early diagnosis of Alzheimer's disease. <i>Medical Image Analysis</i> , 2018, 46, 26-34.	11.6	131
33	Multimodal and Multiscale Deep Neural Networks for the Early Diagnosis of Alzheimer's Disease using structural MR and FDG-PET images. <i>Scientific Reports</i> , 2018, 8, 5697.	3.3	210
34	Gray matter changes in asymptomatic C9orf72 and GRN mutation carriers. <i>NeuroImage: Clinical</i> , 2018, 18, 591-598.	2.7	26
35	Development and validation of a novel dementia of Alzheimer's type (DAT) score based on metabolism FDG-PET imaging. <i>NeuroImage: Clinical</i> , 2018, 18, 802-813.	2.7	35
36	Automated identification of cone photoreceptors in adaptive optics optical coherence tomography images using transfer learning. <i>Biomedical Optics Express</i> , 2018, 9, 5353.	2.9	16

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37	Drusen in the Peripheral Retina of the Alzheimer's Eye. Current Alzheimer Research, 2018, 15, 743-750.	1.4	24
38	Strip-based registration of serially acquired optical coherence tomography angiography. Journal of Biomedical Optics, 2017, 22, 036007.	2.6	25
39	Brain geometry persistent homology marker for Parkinson's disease. , 2017, , .		2
40	Atlas-based shape analysis and classification of retinal optical coherence tomography images using the functional shape (fshape) framework. Medical Image Analysis, 2017, 35, 570-581.	11.6	29
41	Quantifying Variability in Longitudinal Peripapillary RNFL and Choroidal Layer Thickness Using Surface Based Registration of OCT Images. Translational Vision Science and Technology, 2017, 6, 11.	2.2	4
42	Quantitative Optical Coherence Tomography Angiography of Radial Peripapillary Capillaries in Glaucoma, Glaucoma Suspect, and Normal Eyes. American Journal of Ophthalmology, 2016, 170, 41-49.	3.3	165
43	Segmentation of the foveal microvasculature using deep learning networks. Journal of Biomedical Optics, 2016, 21, 075008.	2.6	74
44	Aortic and Cardiac Structure and Function Using High-Resolution Echocardiography and Optical Coherence Tomography in a Mouse Model of Marfan Syndrome. PLoS ONE, 2016, 11, e0164778.	2.5	36
45	Morphological alterations in the caudate, putamen, pallidum, and thalamus in Parkinson's disease. Frontiers in Neuroscience, 2015, 9, 101.	2.8	55
46	Hippocampal subfield surface deformity in nonsemantic primary progressive aphasia. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2015, 1, 14-23.	2.4	15
47	Thickness network features for prognostic applications in dementia. Neurobiology of Aging, 2015, 36, S91-S102.	3.1	44
48	Unified voxel- and tensor-based morphometry (UVTBM) using registration confidence. Neurobiology of Aging, 2015, 36, S60-S68.	3.1	11
49	Construction and use of a zebrafish heart voltage and calcium optical mapping system, with integrated electrocardiogram and programmable electrical stimulation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 308, R755-R768.	1.8	25
50	Morphological phenotyping of mouse hearts using optical coherence tomography. Journal of Biomedical Optics, 2014, 19, 1.	2.6	13
51	Manually segmented template library for 8-year-old pediatric brain MRI data with 16 subcortical structures. Journal of Medical Imaging, 2014, 1, 034502.	1.5	3
52	Novel ThickNet features for the discrimination of amnesic MCI subtypes. NeuroImage: Clinical, 2014, 6, 284-295.	2.7	9
53	Optical mapping of the electrical activity of isolated adult zebrafish hearts: acute effects of temperature. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 306, R823-R836.	1.8	43
54	Optic Nerve Head and Peripapillary Morphometrics in Myopic Glaucoma. , 2014, 55, 4378.		35

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55	Three-Class Differential Diagnosis among Alzheimer Disease, Frontotemporal Dementia, and Controls. Frontiers in Neurology, 2014, 5, 71.	2.4	41
56	The Sub-Classification of Amnesic Mild Cognitive Impairment Using MRI-Based Cortical Thickness Measures. Frontiers in Neurology, 2014, 5, 76.	2.4	12
57	Comparative Analysis of Repeatability of Manual and Automated Choroidal Thickness Measurements in Nonneovascular Age-Related Macular Degeneration. , 2013, 54, 2864.		48
58	Comparison of four shape features for detecting hippocampal shape changes in early Alzheimer's. Statistical Methods in Medical Research, 2013, 22, 439-462.	1.5	12
59	External landmark and head-shape-based functional data normalization. Computerized Medical Imaging and Graphics, 2009, 33, 501-509.	5.8	2
60	Two novel methods for computing the 3D cardiac midwall. , 2008, , .		0
61	Representation of time-varying shapes in the large deformation diffeomorphic framework. , 2008, , .		22
62	Symmetric Data Attachment Terms for Large Deformation Image Registration. IEEE Transactions on Medical Imaging, 2007, 26, 1179-1189.	8.9	57
63	Enhanced Accuracy in Registration of Cortex Functional Data via Large-Deformation Differomorphic Maps. , 2007, , .		0