

Jeny Rajan

List of Publications by Citations

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Version: 2024-04-23

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68

papers

1,064

citations

19

h-index

31

g-index

74

ext. papers

1,337

ext. citations

3.5

avg, IF

4.68

L-index

#	Paper	IF	Citations
68	Machine learning study of several classifiers trained with texture analysis features to differentiate benign from malignant soft-tissue tumors in T1-MRI images. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 31, 680-9	5.6	79
67	Comprehensive framework for accurate diffusion MRI parameter estimation. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 972-84	4.4	77
66	Noise measurement from magnitude MRI using local estimates of variance and skewness. <i>Physics in Medicine and Biology</i> , 2010 , 55, N441-9	3.8	65
65	Recent Advancements in Retinal Vessel Segmentation. <i>Journal of Medical Systems</i> , 2017 , 41, 70	5.1	56
64	Speckle reduction in medical ultrasound images using an unbiased non-local means method. <i>Biomedical Signal Processing and Control</i> , 2016 , 28, 1-8	4.9	56
63	Segmentation of Intra-Retinal Cysts From Optical Coherence Tomography Images Using a Fully Convolutional Neural Network Model. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019 , 23, 296-304	7.2	53
62	Nonlocal maximum likelihood estimation method for denoising multiple-coil magnetic resonance images. <i>Magnetic Resonance Imaging</i> , 2012 , 30, 1512-8	3.3	51
61	Maximum likelihood estimation-based denoising of magnetic resonance images using restricted local neighborhoods. <i>Physics in Medicine and Biology</i> , 2011 , 56, 5221-34	3.8	50
60	An Improved Hybrid Model for Molecular Image Denoising. <i>Journal of Mathematical Imaging and Vision</i> , 2008 , 31, 73-79	1.6	48
59	Automatic detection of tuberculosis bacilli from microscopic sputum smear images using deep learning methods. <i>Biocybernetics and Biomedical Engineering</i> , 2018 , 38, 691-699	5.7	38
58	A new non-local maximum likelihood estimation method for Rician noise reduction in magnetic resonance images using the Kolmogorov-Birnirnov test. <i>Signal Processing</i> , 2014 , 103, 16-23	4.4	34
57	A Review on Carotid Ultrasound Atherosclerotic Tissue Characterization and Stroke Risk Stratification in Machine Learning Framework. <i>Current Atherosclerosis Reports</i> , 2015 , 17, 55	6	30
56	A Review of Automatic Methods Based on Image Processing Techniques for Tuberculosis Detection from Microscopic Sputum Smear Images. <i>Journal of Medical Systems</i> , 2016 , 40, 17	5.1	30
55	Enhancement and bias removal of optical coherence tomography images: An iterative approach with adaptive bilateral filtering. <i>Computers in Biology and Medicine</i> , 2016 , 71, 97-107	7	28
54	Iterative bilateral filter for Rician noise reduction in MR images. <i>Signal, Image and Video Processing</i> , 2015 , 9, 1543-1548	1.6	25
53	Automated Method for Retinal Artery/Vein Separation via Graph Search Metaheuristic Approach. <i>IEEE Transactions on Image Processing</i> , 2019 ,	8.7	24
52	Nonlocal linear minimum mean square error methods for denoising MRI. <i>Biomedical Signal Processing and Control</i> , 2015 , 20, 125-134	4.9	23

51	Carotid inter-adventitial diameter is more strongly related to plaque score than lumen diameter: An automated tool for stroke analysis. <i>Journal of Clinical Ultrasound</i> , 2016 , 44, 210-20	1	21
50	Accurate lumen diameter measurement in curved vessels in carotid ultrasound: an iterative scale-space and spatial transformation approach. <i>Medical and Biological Engineering and Computing</i> , 2017 , 55, 1415-1434	3.1	19
49	Automatic detection and localization of Focal Cortical Dysplasia lesions in MRI using fully convolutional neural network. <i>Biomedical Signal Processing and Control</i> , 2019 , 52, 218-225	4.9	16
48	Two Automated Techniques for Carotid Lumen Diameter Measurement: Regional versus Boundary Approaches. <i>Journal of Medical Systems</i> , 2016 , 40, 182	5.1	16
47	State-of-the-art review on automated lumen and adventitial border delineation and its measurements in carotid ultrasound. <i>Computer Methods and Programs in Biomedicine</i> , 2018 , 163, 155-168	6.9	13
46	A visual attention guided unsupervised feature learning for robust vessel delineation in retinal images. <i>Biomedical Signal Processing and Control</i> , 2018 , 44, 110-126	4.9	13
45	A benchmark study of automated intra-retinal cyst segmentation algorithms using optical coherence tomography B-scans. <i>Computer Methods and Programs in Biomedicine</i> , 2018 , 153, 105-114	6.9	12
44	Segmentation of intima media complex from carotid ultrasound images using wind driven optimization technique. <i>Biomedical Signal Processing and Control</i> , 2018 , 40, 462-472	4.9	12
43	Focal Cortical Dysplasia (FCD) lesion analysis with complex diffusion approach. <i>Computerized Medical Imaging and Graphics</i> , 2009 , 33, 553-8	7.6	12
42	Robust edge-directed interpolation of magnetic resonance images. <i>Physics in Medicine and Biology</i> , 2011 , 56, 7287-303	3.8	11
41	Automated segmentation of intra-retinal cysts from optical coherence tomography scans using marker controlled watershed transform. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 1292-1295	0.9	10
40	An adaptive non local maximum likelihood estimation method for denoising magnetic resonance images 2012 ,		9
39	A Novel Deep Learning Approach for the Removal of Speckle Noise from Optical Coherence Tomography Images Using Gated Convolution Deconvolution Structure. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 115-126	0.4	8
38	Speckle Reduction in Images with WEAD and WECD. <i>Lecture Notes in Computer Science</i> , 2006 , 184-193	0.9	7
37	Ultrasound-Based Automated Carotid Lumen Diameter/Stenosis Measurement and its Validation System. <i>Journal for Vascular Ultrasound</i> , 2016 , 40, 120-134	0.1	7
36	Multi-Res-Attention UNet: A CNN Model for the Segmentation of Focal Cortical Dysplasia Lesions from Magnetic Resonance Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 1724-1734	7.2	7
35	Non-Local Means Image Denoising Using Shapiro-Wilk Similarity Measure. <i>IEEE Access</i> , 2018 , 6, 66914-66922	3.2	7
34	A cascaded convolutional neural network architecture for despeckling OCT images. <i>Biomedical Signal Processing and Control</i> , 2021 , 66, 102463	4.9	6

33	An improved nonlocal maximum likelihood estimation method for denoising magnetic resonance images with spatially varying noise levels. <i>Pattern Recognition Letters</i> , 2020 , 139, 34-41	4.7	6
32	Computational methods for automated mitosis detection in histopathology images: A review. <i>Biocybernetics and Biomedical Engineering</i> , 2021 , 41, 64-82	5.7	6
31	GPU implementation of non-local maximum likelihood estimation method for denoising magnetic resonance images. <i>Journal of Real-Time Image Processing</i> , 2017 , 13, 181-192	1.9	5
30	Magnetic resonance image denoising using nonlocal maximum likelihood paradigm in DCT-framework. <i>International Journal of Imaging Systems and Technology</i> , 2015 , 25, 256-264	2.5	5
29	Guided SAR image despeckling with probabilistic non local weights. <i>Computers and Geosciences</i> , 2017 , 109, 16-24	4.5	4
28	Denoising Magnetic Resonance Images Using Fourth Order Complex Diffusion 2009 ,		4
27	Segmentation Based Noise Variance Estimation from Background MRI Data. <i>Lecture Notes in Computer Science</i> , 2010 , 62-70	0.9	4
26	Capsule Network-based architectures for the segmentation of sub-retinal serous fluid in optical coherence tomography images of central serous chorioretinopathy. <i>Medical and Biological Engineering and Computing</i> , 2021 , 59, 1245-1259	3.1	4
25	Depthwise Separable Convolutional Neural Network Model for Intra-Retinal Cyst Segmentation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 2027-2031	0.9	4
24	Marker controlled watershed transform for intra-retinal cysts segmentation from optical coherence tomography B-scans. <i>Pattern Recognition Letters</i> , 2020 , 139, 86-94	4.7	4
23	A nonlocal maximum likelihood estimation method for enhancing magnetic resonance phase maps. <i>Signal, Image and Video Processing</i> , 2017 , 11, 913-920	1.6	3
22	Coupled PDE for Ultrasound Despeckling Using ENI Classification. <i>Procedia Computer Science</i> , 2016 , 89, 658-665	1.6	3
21	Smoothing and Sharpening Effects of Theta in Complex Diffusion for Image Processing 2009 ,		3
20	Noise measurement from magnitude MRI using local estimates of variance and skewness. <i>Physics in Medicine and Biology</i> , 2010 , 55, 6973-6973	3.8	3
19	Despeckling Algorithms for Optical Coherence Tomography Images. <i>Advances in Medical Technologies and Clinical Practice Book Series</i> , 2019 , 286-310	0.3	3
18	A New Nonlocal Maximum Likelihood Estimation Method for Denoising Magnetic Resonance Images. <i>Lecture Notes in Computer Science</i> , 2013 , 451-458	0.9	3
17	Retinal-Layer Segmentation Using Dilated Convolutions. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 279-292	0.4	3
16	Stack generalized deep ensemble learning for retinal layer segmentation in Optical Coherence Tomography images. <i>Biocybernetics and Biomedical Engineering</i> , 2020 , 40, 1343-1358	5.7	3

15	Deep Learning Based Sub-Retinal Fluid Segmentation in Central Serous Chorioretinopathy Optical Coherence Tomography Scans. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019, 2019, 978-981</i>	0.9	3
14	Crossover based technique for data augmentation.. <i>Computer Methods and Programs in Biomedicine</i> , 2022 , 218, 106716	6.9	3
13	An Improved Contextual Information Based Approach for Anomaly Detection via Adaptive Inference for Surveillance Application. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 133-147	0.4	2
12	A comparative study of different auto-focus methods for mycobacterium tuberculosis detection from brightfield microscopic images 2016 ,		2
11	A computationally efficient non-local maximum likelihood estimation approach for Rician noise reduction in MRI. <i>CSI Transactions on ICT</i> , 2017 , 5, 247-257	0.4	1
10	Fourth order PDE based ultrasound despeckling using ENI classification 2016 ,		1
9	Single Image Super Resolution from Compressive Samples Using Two Level Sparsity Based Reconstruction. <i>Procedia Computer Science</i> , 2015 , 46, 1643-1652	1.6	1
8	A maximum likelihood estimation method for denoising magnitude MRI using restricted local neighborhood 2011 ,		1
7	2011 ,		1
6	A Lightweight Convolutional Neural Network Model for Tuberculosis Bacilli Detection From Microscopic Sputum Smear Images 2021 , 343-351		1
5	Study of malignancy associated changes in sputum images as an indicator of lung cancer 2016 ,		1
4	Segmentation of focal cortical dysplasia lesions from magnetic resonance images using 3D convolutional neural networks. <i>Biomedical Signal Processing and Control</i> , 2021 , 70, 102951	4.9	0
3	Anomalous Event Detection Methodologies for Surveillance Application. <i>Advances in Multimedia and Interactive Technologies Book Series</i> ,1-27	0.2	
2	Anomalous Event Detection Methodologies for Surveillance Application 2019 , 787-813		
1	Advances in Ultrasound Despeckling. <i>Advances in Medical Technologies and Clinical Practice Book Series</i> , 2019 , 311-335	0.3	