

Mrinal Mandal

List of Publications by Year in Descending Order

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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.

49
papers

708
citations

15
h-index

25
g-index

57
ext. papers

948
ext. citations

4.2
avg, IF

4.5
L-index

#	Paper	IF	Citations
49	Review of ASIC accelerators for deep neural network. <i>Microprocessors and Microsystems</i> , 2022 , 89, 104444	1.4	3
48	Skin Lesion Segmentation Using Deep Learning with Auxiliary Task. <i>Journal of Imaging</i> , 2021 , 7,	3.1	17
47	Automated proliferation index calculation for skin melanoma biopsy images using machine learning. <i>Computerized Medical Imaging and Graphics</i> , 2021 , 89, 101893	7.6	1
46	Integration of light scattering with machine learning for label free cell detection. <i>Biomedical Optics Express</i> , 2021 , 12, 3512-3529	3.5	1
45	Detection of malignant melanoma in H&E-stained images using deep learning techniques. <i>Tissue and Cell</i> , 2021 , 73, 101659	2.7	2
44	An unsupervised method for histological image segmentation based on tissue cluster level graph cut. <i>Computerized Medical Imaging and Graphics</i> , 2021 , 93, 101974	7.6	3
43	Deep learning-based histopathological image analysis for automated detection and staging of melanoma 2020 , 237-265		5
42	Automated detection of focal cortical dysplasia using a deep convolutional neural network. <i>Computerized Medical Imaging and Graphics</i> , 2020 , 79, 101662	7.6	13
41	Automatic skin lesion classification based on mid-level feature learning. <i>Computerized Medical Imaging and Graphics</i> , 2020 , 84, 101765	7.6	13
40	Efficient FPGA Implementation of Automatic Nuclei Detection in Histopathology Images. <i>Journal of Imaging</i> , 2019 , 5,	3.1	2
39	Novel lymph node segmentation and proliferation index measurement for skin melanoma biopsy images. <i>Computerized Medical Imaging and Graphics</i> , 2019 , 73, 19-29	7.6	12
38	Automatic Detection of Pneumonia on Compressed Sensing Images using Deep Learning 2019 ,		12
37	Automated Melanoma Staging in Lymph Node Biopsy Image using Deep Learning 2019 ,		4
36	Automated analysis and classification of melanocytic tumor on skin whole slide images. <i>Computerized Medical Imaging and Graphics</i> , 2018 , 66, 124-134	7.6	24
35	Computer-aided diagnosis of cavernous malformations in brain MR images. <i>Computerized Medical Imaging and Graphics</i> , 2018 , 66, 115-123	7.6	4
34	Automatic Nuclei Detection Based on Generalized Laplacian of Gaussian Filters. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017 , 21, 826-837	7.2	35
33	Automatic Nuclear Segmentation Using Multiscale Radial Line Scanning With Dynamic Programming. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2475-2485	5	14

32	Computerized measurement of melanoma depth of invasion in skin biopsy images 2017 ,		1
31	Automatic measurement of melanoma depth of invasion in skin histopathological images. <i>Micron</i> , 2017 , 97, 56-67	2.3	11
30	Multi-Pass Adaptive Voting for Nuclei Detection in Histopathological Images. <i>Scientific Reports</i> , 2016 , 6, 33985	4.9	18
29	Automated analysis and diagnosis of skin melanoma on whole slide histopathological images. <i>Pattern Recognition</i> , 2015 , 48, 2738-2750	7.7	43
28	Automated segmentation of the epidermis area in skin whole slide histopathological images. <i>IET Image Processing</i> , 2015 , 9, 735-742	1.7	4
27	Epidermis segmentation in skin histopathological images based on thickness measurement and k-means algorithm. <i>Eurasip Journal on Image and Video Processing</i> , 2015 , 2015,	2.5	24
26	Automated image analysis of nuclear atypia in high-power field histopathological image. <i>Journal of Microscopy</i> , 2015 , 258, 233-40	1.9	18
25	Automated segmentation of regions of interest in whole slide skin histopathological images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 3869-72	0.9	1
24	Toward automatic mitotic cell detection and segmentation in multispectral histopathological images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014 , 18, 594-605	7.2	37
23	Further investigation on adaptive search. <i>Journal of Engineering</i> , 2014 , 2014, 238-247	0.7	1
22	An efficient technique for nuclei segmentation based on ellipse descriptor analysis and improved seed detection algorithm. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014 , 18, 1729-41	7.2	41
21	Automated segmentation of the melanocytes in skin histopathological images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2013 , 17, 284-96	7.2	37
20	Optimal Design of Noise-Enhanced Binary Threshold Detector Under AUC Measure. <i>IEEE Signal Processing Letters</i> , 2013 , 20, 161-164	3.2	4
19	Detection of melanocytes in skin histopathological images using radial line scanning. <i>Pattern Recognition</i> , 2013 , 46, 509-518	7.7	21
18	Singular point detection based on orientation filed regularization and poincaré index in fingerprint images 2013 ,		2
17	On optimal threshold and structure in threshold system based detector. <i>Signal Processing</i> , 2012 , 92, 170-178	4.78	4
16	A robust detector of known signal in non-Gaussian noise using threshold systems. <i>Signal Processing</i> , 2012 , 92, 2676-2688	4.4	52
15	Bleeding region detection in WCE images based on color features and neural network 2011 ,		15

14	An Improved Fluid Vector Flow for Cavity Segmentation in Chest Radiographs 2010 ,		2
13	Design of stochastic-resonator-based detector using bistable system 2010 ,		1
12	An intelligent CAD system for automated detection of pulmonary tuberculosis on chest radiograph and CT thorax: A road map 2010 ,		1
11	Improved image registration technique based on Demons and symmetric orthogonal gradient information 2010 ,		1
10	QIM data hiding for tamper detection and correction in digital images using wavelet transform 2010 ,		1
9	Improved Demons Technique with Orthogonal Gradient Information for Medical Image Registration. <i>IEICE Transactions on Information and Systems</i> , 2010 , E93-D, 3414-3417	0.6	5
8	Transmitter optimization in diversity assisted synchronous CI/MC-CDMA uplink systems using genetic algorithm 2008 ,		1
7	A confidence measure and iterative rank-based method for temporal registration. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 ,	1.6	1
6	A Linear Algorithm for Tracing Magnet Position and Orientation by Using Three-Axis Magnetic Sensors. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 4096-4101	2	83
5	Low Bit-Rate Object-based Multi-view Video Coding using MVC 2007 ,		1
4	Image Based Temporal Registration of MRI Data for Medical Visualization 2006 ,		5
3	EFFICIENT MAGNETIC LOCALIZATION AND ORIENTATION TECHNIQUE FOR CAPSULE ENDOSCOPY. <i>International Journal of Information Acquisition</i> , 2005 , 02, 23-36		100
2	Virtual Traffic Path Optimization in Connection-Oriented Networks with Stochastic Traffic. <i>Journal of Network and Systems Management</i> , 2004 , 12, 231-249	2.1	3
1	Novel patch selection based on object detection in HMAX for natural image classification. <i>Signal, Image and Video Processing</i> , 1	1.6	