Mrinal Mandal

List of Publications by Citations

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	EFFICIENT MAGNETIC LOCALIZATION AND ORIENTATION TECHNIQUE FOR CAPSULE ENDOSCOPY. *International Journal of Information Acquisition*, **2005**, 02, 23-36		100
48	A Linear Algorithm for Tracing Magnet Position and Orientation by Using Three-Axis Magnetic Sensors. *IEEE Transactions on Magnetics*, **2007**, 43, 4096-4101	2	83
47	A robust detector of known signal in non-Gaussian noise using threshold systems. *Signal Processing*, **2012**, 92, 2676-2688	4.4	52
46	Automated analysis and diagnosis of skin melanoma on whole slide histopathological images. *Pattern Recognition*, **2015**, 48, 2738-2750	7.7	43
45	An efficient technique for nuclei segmentation based on ellipse descriptor analysis and improved seed detection algorithm. *IEEE Journal of Biomedical and Health Informatics*, **2014**, 18, 1729-41	7.2	41
44	Toward automatic mitotic cell detection and segmentation in multispectral histopathological images. *IEEE Journal of Biomedical and Health Informatics*, **2014**, 18, 594-605	7.2	37
43	Automated segmentation of the melanocytes in skin histopathological images. *IEEE Journal of Biomedical and Health Informatics*, **2013**, 17, 284-96	7.2	37
42	Automatic Nuclei Detection Based on Generalized Laplacian of Gaussian Filters. *IEEE Journal of Biomedical and Health Informatics*, **2017**, 21, 826-837	7.2	35
41	Automated analysis and classification of melanocytic tumor on skin whole slide images. *Computerized Medical Imaging and Graphics*, **2018**, 66, 124-134	7.6	24
40	Epidermis segmentation in skin histopathological images based on thickness measurement and k-means algorithm. *Eurasip Journal on Image and Video Processing*, **2015**, 2015,	2.5	24
39	Detection of melanocytes in skin histopathological images using radial line scanning. *Pattern Recognition*, **2013**, 46, 509-518	7.7	21
38	Automated image analysis of nuclear atypia in high-power field histopathological image. *Journal of Microscopy*, **2015**, 258, 233-40	1.9	18
37	Multi-Pass Adaptive Voting for Nuclei Detection in Histopathological Images. *Scientific Reports*, **2016**, 6, 33985	4.9	18
36	Skin Lesion Segmentation Using Deep Learning with Auxiliary Task. *Journal of Imaging*, **2021**, 7,	3.1	17
35	Bleeding region detection in WCE images based on color features and neural network **2011**,		15
34	Automatic Nuclear Segmentation Using Multiscale Radial Line Scanning With Dynamic Programming. *IEEE Transactions on Biomedical Engineering*, **2017**, 64, 2475-2485	5	14
33	Automated detection of focal cortical dysplasia using a deep convolutional neural network. *Computerized Medical Imaging and Graphics*, **2020**, 79, 101662	7.6	13

32	Automatic skin lesion classification based on mid-level feature learning. *Computerized Medical Imaging and Graphics*, **2020**, 84, 101765	7.6	13
31	Novel lymph node segmentation and proliferation index measurement for skin melanoma biopsy images. *Computerized Medical Imaging and Graphics*, **2019**, 73, 19-29	7.6	12
30	Automatic Detection of Pneumonia on Compressed Sensing Images using Deep Learning **2019**,		12
29	Automatic measurement of melanoma depth of invasion in skin histopathological images. *Micron*, **2017**, 97, 56-67	2.3	11
28	Deep learning-based histopathological image analysis for automated detection and staging of melanoma **2020**, 237-265		5
27	Improved Demons Technique with Orthogonal Gradient Information for Medical Image Registration. *IEICE Transactions on Information and Systems*, **2010**, E93-D, 3414-3417	0.6	5
26	Image Based Temporal Registration of MRI Data for Medical Visualization **2006**,		5
25	Automated segmentation of the epidermis area in skin whole slide histopathological images. *IET Image Processing*, **2015**, 9, 735-742	1.7	4
24	Computer-aided diagnosis of cavernous malformations in brain MR images. *Computerized Medical Imaging and Graphics*, **2018**, 66, 115-123	7.6	4
23	On optimal threshold and structure in threshold system based detector. *Signal Processing*, **2012**, 92, 170-178	4.4	4
22	Optimal Design of Noise-Enhanced Binary Threshold Detector Under AUC Measure. *IEEE Signal Processing Letters*, **2013**, 20, 161-164	3.2	4
21	Automated Melanoma Staging in Lymph Node Biopsy Image using Deep Learning **2019**,		4
20	Virtual Traffic Path Optimization in Connection-Oriented Networks with Stochastic Traffic. *Journal of Network and Systems Management*, **2004**, 12, 231-249	2.1	3
19	Review of ASIC accelerators for deep neural network. *Microprocessors and Microsystems*, **2022**, 89, 104441	2.4	3
18	An unsupervised method for histological image segmentation based on tissue cluster level graph cut. *Computerized Medical Imaging and Graphics*, **2021**, 93, 101974	7.6	3
17	Efficient FPGA Implementation of Automatic Nuclei Detection in Histopathology Images. *Journal of Imaging*, **2019**, 5,	3.1	2
16	Singular point detection based on orientation filed regularization and poincar□ndex in fingerprint images **2013**,		2
15	An Improved Fluid Vector Flow for Cavity Segmentation in Chest Radiographs **2010**,		2

14	Detection of malignant melanoma in H&E-stained images using deep learning techniques. *Tissue and Cell*, **2021**, 73, 101659	2.7	2
13	Computerized measurement of melanoma depth of invasion in skin biopsy images **2017**,		1
12	Automated segmentation of regions of interest in whole slide skin histopathological images. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 3869-72	0.9	1
11	Further investigation on adaptive search. *Journal of Engineering*, **2014**, 2014, 238-247	0.7	1
10	Design of stochastic-resonator-based detector using bistable system **2010**,		1
9	An intelligent CAD system for automated detection of pulmonary tuberculosis on chest radiograph and CT thorax: A road map **2010**,		1
8	Improved image registration technique based on Demons and symmetric orthogonal gradient information **2010**,		1
7	QIM data hiding for tamper detection and correction in digital images using wavelet transform **2010**,		1
6	Transmitter optimization in diversity assisted synchronous CI/MC-CDMA uplink systems using genetic algorithm **2008**,		1
5	A confidence measure and iterative rank-based method for temporal registration. *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing*, **2008**,	1.6	1
4	Low Bit-Rate Object-based Multi-view Video Coding using MVC **2007**,		1
3	Automated proliferation index calculation for skin melanoma biopsy images using machine learning. *Computerized Medical Imaging and Graphics*, **2021**, 89, 101893	7.6	1
2	Integration of light scattering with machine learning for label free cell detection. *Biomedical Optics Express*, **2021**, 12, 3512-3529	3.5	1
1	Novel patch selection based on object detection in HMAX for natural image classification. *Signal, Image and Video Processing*,1	1.6	