Ashnil Kumar

List of Publications by Year
in descending order

45 papers	1,636 citations	516710 16 h-index	526287 27 g-index
45 all docs	45 docs citations	45 times ranked	1938 citing authors

#	Article	IF	Citations
1	Convolutional Neural Networks in ENT Radiology: Systematic Review of the Literature. Annals of Otology, Rhinology and Laryngology, 2023, 132, 417-430.	1.1	5
2	Fused feature signatures to probe tumour radiogenomics relationships. Scientific Reports, 2022, 12, 2173.	3.3	3
3	Artificial intelligence to classify ear disease from otoscopy: A systematic review and meta‐analysis. Clinical Otolaryngology, 2022, 47, 401-413.	1.2	19
4	Graph-Based Intercategory and Intermodality Network for Multilabel Classification and Melanoma Diagnosis of Skin Lesions in Dermoscopy and Clinical Images. IEEE Transactions on Medical Imaging, 2022, 41, 3266-3277.	8.9	5
5	Multimodal Spatial Attention Module for Targeting Multimodal PET-CT Lung Tumor Segmentation. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3507-3516.	6.3	74
6	Co-Learning Feature Fusion Maps From PET-CT Images of Lung Cancer. IEEE Transactions on Medical Imaging, 2020, 39, 204-217.	8.9	144
7	Machine learning in medical imaging. , 2020, , 167-196.		12
8	Content-based large-scale medical image retrieval. , 2020, , 321-368.		3
9	Unsupervised Domain Adaptation to Classify Medical Images Using Zero-Bias Convolutional Auto-Encoders and Context-Based Feature Augmentation. IEEE Transactions on Medical Imaging, 2020, 39, 2385-2394.	8.9	27
10	Step-wise integration of deep class-specific learning for dermoscopic image segmentation. Pattern Recognition, 2019, 85, 78-89.	8.1	141
11	Optimizing Contextual Feature Learning for Mitosis Detection with Convolutional Recurrent Neural Networks. , 2019, , .		4
12	Unsupervised Deep Transfer Feature Learning for Medical Image Classification. , 2019, , .		27
13	A direct volume rendering visualization approach for serial PET–CT scans that preserves anatomical consistency. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 733-744.	2.8	4
14	Convolutional sparse kernel network for unsupervised medical image analysis. Medical Image Analysis, 2019, 56, 140-151.	11.6	24
15	Decision Fusion-Based Fetal Ultrasound Image Plane Classification Using Convolutional Neural Networks. Ultrasound in Medicine and Biology, 2019, 45, 1259-1273.	1.5	38
16	An Automated Framework for Large Scale Retrospective Analysis of Ultrasound Images. IEEE Journal of Translational Engineering in Health and Medicine, 2019, 7, 1-9.	3.7	1
17	Unsupervised Two-Path Neural Network for Cell Event Detection and Classification Using Spatiotemporal Patterns. IEEE Transactions on Medical Imaging, 2019, 38, 1477-1487.	8.9	14
18	Automatic Measurement of Thalamic Diameter in 2-D Fetal Ultrasound Brain Images Using Shape Prior Constrained Regularized Level Sets. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1069-1078.	6.3	13

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19	Saliency-Based Lesion Segmentation Via Background Detection in Dermoscopic Images. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1685-1693.	6.3	123
20	High-dimensional data visualization by interactive construction of low-dimensional parallel coordinate plots. Journal of Visual Languages and Computing, 2017, 43, 1-13.	1.8	27
21	Stacked fully convolutional networks with multi-channel learning: application to medical image segmentation. Visual Computer, 2017, 33, 1061-1071.	3.5	43
22	Automatic detection and classification of regions of FDG uptake in whole-body PET-CT lymphoma studies. Computerized Medical Imaging and Graphics, 2017, 60, 3-10.	5.8	55
23	An Ensemble of Fine-Tuned Convolutional Neural Networks for Medical Image Classification. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 31-40.	6.3	360
24	Synthesis of Positron Emission Tomography (PET) Images via Multi-channel Generative Adversarial Networks (GANs). Lecture Notes in Computer Science, 2017, , 43-51.	1.3	57
25	Plane identification in fetal ultrasound images using saliency maps and convolutional neural networks. , 2016, , .		22
26	X-ray image classification using domain transferred convolutional neural networks and local sparse spatial pyramid. , 2016, , .		19
27	Efficient visibility-driven medical image visualisation via adaptive binned visibility histogram. Computerized Medical Imaging and Graphics, 2016, 51, 40-49.	5.8	6
28	Transfer learning of a convolutional neural network for HEp-2 cell image classification. , 2016, , .		40
29	An intuitive Sketch-based Transfer Function Design via Contextual and Regional Labelling. , 2016, , .		0
30	Adapting content-based image retrieval techniques for the semantic annotation of medical images. Computerized Medical Imaging and Graphics, 2016, 49, 37-45.	5.8	43
31	A Visual Analytics Approach Using the Exploration of Multidimensional Feature Spaces for Content-Based Medical Image Retrieval. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1734-1746.	6.3	22
32	Efficient PET-CT image retrieval using graphs embedded into a vector space. , 2014, 2014, 1901-4.		3
33	A graph-based approach for the retrieval of multi-modality medical images. Medical Image Analysis, 2014, 18, 330-342.	11.6	35
34	Designing user interfaces to enhance human interpretation of medical content-based image retrieval: application to PET-CT images. International Journal of Computer Assisted Radiology and Surgery, 2013, 8, 1003-1014.	2.8	6
35	Content-Based Medical Image Retrieval: A Survey of Applications to Multidimensional and Multimodality Data. Journal of Digital Imaging, 2013, 26, 1025-1039.	2.9	162
36	Cellular automata and anisotropic diffusion filter based interactive tumor segmentation for positron emission tomography. , 2013, 2013, 5453-6.		9

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37	Graph-based retrieval of PET-CT images using vector space embedding. , 2013, , .		3
38	A patient-centric distribution architecture for medical image sharing. Health Information Science and Systems, 2013, 1, 3.	5.2	6
39	A web-based medical multimedia visualisation interface for personal health records. , 2013, , .		11
40	A Graph-based approach to the retrieval of volumetric PET-CT lung images. , 2012, 2012, 5408-11.		11
41	Graph-based retrieval of multi-modality medical images: A comparison of representations using simulated images. , 2012, , .		6
42	A web-based image viewer for multiple PET-CT follow-up studies. , 2011, 2011, 5279-82.		1
43	Multi-Modal Content Based Image Retrieval in Healthcare. , 2011, , 44-59.		2
44	A graph-based approach to the retrieval of dual-modality biomedical images using spatial relationships. , 2008, 2008, 390-3.		6
45	Interactive point-of-interest volume rendering visualization of PET-CT data. , 2008, , .		0