Yitian Zhao

List of Publications by Citations

52 papers	1,509 citations	16 h-index	38 g-index
54 ext. papers	2,330 ext. citations	4.9 avg, IF	5.11 L-index

#	Paper	IF	Citations
52	CE-Net: Context Encoder Network for 2D Medical Image Segmentation. *IEEE Transactions on Medical Imaging*, **2019**, 38, 2281-2292	11.7	471
51	Automated Vessel Segmentation Using Infinite Perimeter Active Contour Model with Hybrid Region Information with Application to Retinal Images. *IEEE Transactions on Medical Imaging*, **2015**, 34, 1797-807	11.7	258
50	Understanding adversarial attacks on deep learning based medical image analysis systems. *Pattern Recognition*, **2021**, 110, 107332	7.7	80
49	Automatic 2-D/3-D Vessel Enhancement in Multiple Modality Images Using a Weighted Symmetry Filter. *IEEE Transactions on Medical Imaging*, **2018**, 37, 438-450	11.7	60
48	CS-Net: Channel and Spatial Attention Network for Curvilinear Structure Segmentation. *Lecture Notes in Computer Science*, **2019**, 721-730	0.9	56
47	An artificial intelligence-based deep learning algorithm for the diagnosis of diabetic neuropathy using corneal confocal microscopy: a development and validation study. *Diabetologia*, **2020**, 63, 419-430	10.3	54
46	Retinal vessel segmentation: an efficient graph cut approach with retinex and local phase. *PLoS ONE*, **2015**, 10, e0122332	3.7	53
45	Intensity and Compactness Enabled Saliency Estimation for Leakage Detection in Diabetic and Malarial Retinopathy. *IEEE Transactions on Medical Imaging*, **2017**, 36, 51-63	11.7	44
44	Saliency driven vasculature segmentation with infinite perimeter active contour model. *Neurocomputing*, **2017**, 259, 201-209	5.4	42
43	ROSE: A Retinal OCT-Angiography Vessel Segmentation Dataset and New Model. *IEEE Transactions on Medical Imaging*, **2021**, 40, 928-939	11.7	40
42	CS-Net: Deep learning segmentation of curvilinear structures in medical imaging. *Medical Image Analysis*, **2021**, 67, 101874	15.4	37
41	Dense Dilated Network With Probability Regularized Walk for Vessel Detection. *IEEE Transactions on Medical Imaging*, **2020**, 39, 1392-1403	11.7	31
40	Augmented reality based real-time subcutaneous vein imaging system. *Biomedical Optics Express*, **2016**, 7, 2565-85	3.5	29
39	Retinal Vascular Network Topology Reconstruction and Artery/Vein Classification via Dominant Set Clustering. *IEEE Transactions on Medical Imaging*, **2020**, 39, 341-356	11.7	25
38	Retinal Artery and Vein Classification via Dominant Sets Clustering-Based Vascular Topology Estimation. *Lecture Notes in Computer Science*, **2018**, 56-64	0.9	24
37	Automated detection of leakage in fluorescein angiography images with application to malarial retinopathy. *Scientific Reports*, **2015**, 5, 10425	4.9	23
36	Automated Tortuosity Analysis of Nerve Fibers in Corneal Confocal Microscopy. *IEEE Transactions on Medical Imaging*, **2020**, 39, 2725-2737	11.7	16

35	SkrGAN: Sketching-Rendering Unconditional Generative Adversarial Networks for Medical Image Synthesis. *Lecture Notes in Computer Science*, **2019**, 777-785	0.9	16
34	Region-based saliency estimation for 3D shape analysis and understanding. *Neurocomputing*, **2016**, 197, 1-13	5.4	15
33	Automated Detection of Vessel Abnormalities on Fluorescein Angiogram in Malarial Retinopathy. *Scientific Reports*, **2015**, 5, 11154	4.9	14
32	Angle-closure assessment in anterior segment OCT images via deep learning. *Medical Image Analysis*, **2021**, 69, 101956	15.4	14
31	Uniqueness-Driven Saliency Analysis for Automated Lesion Detection with Applications to Retinal Diseases. *Lecture Notes in Computer Science*, **2018**, 109-118	0.9	12
30	Automatic Detection and Distinction of Retinal Vessel Bifurcations and Crossings in Colour Fundus Photography. *Journal of Imaging*, **2018**, 4, 4	3.1	9
29	Spatial Uncertainty-Aware Semi-Supervised Crowd Counting **2021**,		8
28	Anterior Chamber Angles Classification in Anterior Segment OCT Images via Multi-Scale Regions Convolutional Neural Networks. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 849-852	0.9	7
27	Retinal vascular segmentation using superpixel-based line operator and its application to vascular topology estimation. *Medical Physics*, **2018**, 45, 3132-3146	4.4	7
26	Speckle reduction of OCT via super resolution reconstruction and its application on retinal layer segmentation. *Artificial Intelligence in Medicine*, **2020**, 106, 101871	7.4	5
25	Cerebrovascular Segmentation in MRA via Reverse Edge Attention Network. *Lecture Notes in Computer Science*, **2020**, 66-75	0.9	5
24	Explainable Diabetic Retinopathy Detection and Retinal Image Generation. *IEEE Journal of Biomedical and Health Informatics*, **2021**, PP,	7.2	5
23	Automated retinal lesion detection via image saliency analysis. *Medical Physics*, **2019**, 46, 4531-4544	4.4	4
22	A Retinex theory based point sampling method **2011**,		4
21	Classification of Retinal Vessels into Artery-Vein in OCT Angiography Guided by Fundus Images. *Lecture Notes in Computer Science*, **2020**, 117-127	0.9	4
20	Automated Iris Segmentation from Anterior Segment OCT Images with Occludable Angles via Local Phase Tensor. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 4745-4748	0.9	4
19	Exploiting Reliability-Guided Aggregation for the Assessment of Curvilinear Structure Tortuosity. *Lecture Notes in Computer Science*, **2019**, 12-20	0.9	3
18	3D Vessel Reconstruction In Oct-Angiography Via Depth Map Estimation **2021**,		3

17	Quantification of Increased Corneal Subbasal Nerve Tortuosity in Dry Eye Disease and Its Correlation With Clinical Parameters. *Translational Vision Science and Technology*, **2021**, 10, 26	3.3	3
16	Speckle Reduction in Optical Coherence Tomography via Super-Resolution Reconstruction. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 5589-5592	0.9	2
15	Deep Learning with Skip Connection Attention for Choroid Layer Segmentation in OCT Images. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2020**, 2020, 1641-1645	0.9	2
14	Keratoconus detection of changes using deep learning of colour-coded maps. *BMJ Open Ophthalmology*, **2021**, 6, e000824	3.2	2
13	A mobilized automatic human body measure system using neural network. *Multimedia Tools and Applications*, **2019**, 78, 11291-11311	2.5	2
12	Hybrid Variation-aware Network for Angle-closure Assessment in AS-OCT. *IEEE Transactions on Medical Imaging*, **2021**, PP,	11.7	2
11	A compactness based saliency approach for leakages detection in fluorescein angiogram. *International Journal of Machine Learning and Cybernetics*, **2017**, 8, 1971-1979	3.8	1
10	Reconstruction and Quantification of 3D Iris Surface for Angle-Closure Glaucoma Detection in Anterior Segment OCT. *Lecture Notes in Computer Science*, **2020**, 704-714	0.9	1
9	The Channel Attention Based Context Encoder Network for Inner Limiting Membrane Detection. *Lecture Notes in Computer Science*, **2019**, 104-111	0.9	1
8	Superpixel-Based Line Operator for Retinal Blood Vessel Segmentation. *Communications in Computer and Information Science*, **2017**, 15-26	0.3	1
7	Cross-Domain Depth Estimation Network for 3D Vessel Reconstruction in OCT Angiography. *Lecture Notes in Computer Science*, **2021**, 13-23	0.9	1
6	Outer Retinal Layer Thickness Changes in White Matter Hyperintensity and Parkinson's Disease. *Frontiers in Neuroscience*, **2021**, 15, 741651	5.1	0
5	Superficial Macula Capillary Complexity Changes Are Associated With Disability in Neuromyelitis Optica Spectrum Disorders. *Frontiers in Neurology*, **2021**, 12, 724946	4.1	0
4	Automated Corneal Nerve Segmentation Using Weighted Local Phase Tensor. *Communications in Computer and Information Science*, **2020**, 459-469	0.3	
3	Automatic Tortuosity Estimation of Nerve Fibers and Retinal Vessels in Ophthalmic Images. *Applied Sciences (Switzerland)*, **2020**, 10, 4788	2.6	
2	Guided Adversarial Adaptation Network for Retinal and Choroidal Layer Segmentation. *Lecture Notes in Computer Science*, **2021**, 82-91	0.9	
1	Automated Segmentation of Trigeminal Nerve and Cerebrovasculature in MR-Angiography Images by Deep Learning.. *Frontiers in Neuroscience*, **2021**, 15, 744967	5.1	