

Jun Cheng

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.

97
papers

2,342
citations

20
h-index

46
g-index

105
ext. papers

3,367
ext. citations

3.7
avg, IF

5.3
L-index

#	Paper	IF	Citations
97	CS-Net: Deep learning segmentation of curvilinear structures in medical imaging. <i>Medical Image Analysis</i> , 2021 , 67, 101874	15.4	37
96	Structure and Illumination Constrained GAN for Medical Image Enhancement. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 3955-3967	11.7	6
95	Memorizing Structure-Texture Correspondence for Image Anomaly Detection. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	3
94	Speckle reduction of OCT via super resolution reconstruction and its application on retinal layer segmentation. <i>Artificial Intelligence in Medicine</i> , 2020 , 106, 101871	7.4	5
93	Correction to Noise Adaptation Generative Adversarial Network for Medical Image Analysis. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 2566-2567	11.7	
92	Universal digital filtering for denoising volumetric retinal OCT and OCT angiography in 3D shearlet domain. <i>Optics Letters</i> , 2020 , 45, 694-697	3	6
91	Digital resolution enhancement in low transverse sampling optical coherence tomography angiography using deep learning. <i>OSA Continuum</i> , 2020 , 3, 1664	1.4	2
90	Encoding Structure-Texture Relation with P-Net for Anomaly Detection in Retinal Images. <i>Lecture Notes in Computer Science</i> , 2020 , 360-377	0.9	16
89	Techniques and Applications in Skin OCT Analysis. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1213, 149-163	3.6	7
88	Cycle Structure and Illumination Constrained GAN for Medical Image Enhancement. <i>Lecture Notes in Computer Science</i> , 2020 , 667-677	0.9	8
87	Dense Dilated Network With Probability Regularized Walk for Vessel Detection. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 1392-1403	11.7	31
86	JointRCNN: A Region-Based Convolutional Neural Network for Optic Disc and Cup Segmentation. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 335-343	5	39
85	Noise Adaptation Generative Adversarial Network for Medical Image Analysis. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 1149-1159	11.7	19
84	CE-Net: Context Encoder Network for 2D Medical Image Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 2281-2292	11.7	471
83	Automatic fibroatheroma identification in intravascular optical coherence tomography volumes. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019 , 1	3.7	1
82	Glaucoma Detection Based on Deep Learning Network in Fundus Image. <i>Advances in Computer Vision and Pattern Recognition</i> , 2019 , 119-137	1.1	7
81	CS-Net: Channel and Spatial Attention Network for Curvilinear Structure Segmentation. <i>Lecture Notes in Computer Science</i> , 2019 , 721-730	0.9	56

80	SkrGAN: Sketching-Rendering Unconditional Generative Adversarial Networks for Medical Image Synthesis. <i>Lecture Notes in Computer Science</i> , 2019 , 777-785	0.9	16
79	The Channel Attention Based Context Encoder Network for Inner Limiting Membrane Detection. <i>Lecture Notes in Computer Science</i> , 2019 , 104-111	0.9	1
78	A Deep Step Pattern Representation for Multimodal Retinal Image Registration 2019 ,		14
77	Structure-preserving guided retinal image filtering for optic disc analysis 2019 , 199-221		3
76	Response: Optical Coherence Tomography Angiography of Optic Disc and Macula Vessel Density in Glaucoma and Healthy Eyes. <i>Journal of Glaucoma</i> , 2019 , 28, e132-e133	2.1	2
75	Optical Coherence Tomography Angiography of Optic Disc and Macula Vessel Density in Glaucoma and Healthy Eyes. <i>Journal of Glaucoma</i> , 2019 , 28, 80-87	2.1	34
74	Joint Optic Disc and Cup Segmentation Based on Multi-Label Deep Network and Polar Transformation. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 1597-1605	11.7	339
73	Learning supervised descent directions for optic disc segmentation. <i>Neurocomputing</i> , 2018 , 275, 350-357	5.4	17
72	A CAPTCHA recognition technology based on deep learning 2018 ,		4
71	Three-dimensional graph-based skin layer segmentation in optical coherence tomography images for roughness estimation. <i>Biomedical Optics Express</i> , 2018 , 9, 3590-3606	3.5	8
70	Multi-Cell Multi-Task Convolutional Neural Networks for Diabetic Retinopathy Grading. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 2724-2727	0.9	21
69	Optic Disc and Cup Segmentation with Blood Vessel Removal from Fundus Images for Glaucoma Detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 862-865	0.9	9
68	Optical coherence tomography angiography of the macula and optic nerve head: microvascular density and test-retest repeatability in normal subjects. <i>BMC Ophthalmology</i> , 2018 , 18, 315	2.3	17
67	Fundus Image Quality-Guided Diabetic Retinopathy Grading. <i>Lecture Notes in Computer Science</i> , 2018 , 245-252	0.9	
66	DeepDisc: Optic Disc Segmentation Based on Atrous Convolution and Spatial Pyramid Pooling. <i>Lecture Notes in Computer Science</i> , 2018 , 253-260	0.9	9
65	Large-Scale Left and Right Eye Classification in Retinal Images. <i>Lecture Notes in Computer Science</i> , 2018 , 261-268	0.9	2
64	Automatic Localization of Optic Disc using Modified U-Net 2018 ,		4
63	Disc-Aware Ensemble Network for Glaucoma Screening From Fundus Image. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 2493-2501	11.7	164

62	Structure-Preserving Guided Retinal Image Filtering and Its Application for Optic Disk Analysis. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 2536-2546	11.7	28
61	Sparse Range-Constrained Learning and Its Application for Medical Image Grading. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 2729-2738	11.7	10
60	Fibroatheroma identification in Intravascular Optical Coherence Tomography images using deep features. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 1501-1504	0.9	9
59	Image quality classification for DR screening using deep learning. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 664-667	0.9	23
58	Optic Disc Detection via Deep Learning in Fundus Images. <i>Lecture Notes in Computer Science</i> , 2017 , 134-144		7
57	Glaucoma classification from retina optical coherence tomography angiogram. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 596-599	0.9	5
56	Extract-and-match geometric corner and step pattern approach for registration of fluoroscopic X-ray sequences. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 568-571	0.9	
55	Automatic glaucoma screening hybrid cloud system with pattern classification algorithms 2017 ,		2
54	Supervised 3D graph-based automated epidermal thickness estimation 2017 ,		2
53	Automatic localization of optic disc based on deep learning in fundus images 2017 ,		8
52	Quadratic divergence regularized SVM for optic disc segmentation. <i>Biomedical Optics Express</i> , 2017 , 8, 2687-2696	3.5	12
51	Similarity regularized sparse group lasso for cup to disc ratio computation. <i>Biomedical Optics Express</i> , 2017 , 8, 3763-3777	3.5	20
50	Integrating holistic and local deep features for glaucoma classification. <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, 1328-1331	0.9	25
49	Automated in vivo 3D high-definition optical coherence tomography skin analysis system. <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, 3895-3898	0.9	4
48	Automated basal cell carcinoma detection in high-definition optical coherence tomography. <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, 2885-2888	0.9	4
47	Automatic image classification in intravascular optical coherence tomography images 2016 ,		8
46	Speckle Reduction in 3D Optical Coherence Tomography of Retina by A-Scan Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 2270-2279	11.7	44
45	A Robust Outlier Elimination Approach for Multimodal Retina Image Registration. <i>Lecture Notes in Computer Science</i> , 2015 , 329-337	0.9	5

44	Using deep learning for robustness to parapapillary atrophy in optic disc segmentation 2015 ,		12
43	Epidermal segmentation in high-definition optical coherence tomography. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015</i> , 2015, 3045-8	0.9	6
42	Graph based lumen segmentation in optical coherence tomography images 2015 ,		6
41	Skin surface topographic assessment using in vivo high-definition optical coherence tomography 2015 ,		2
40	An augmented reality assistance platform for eye laser surgery. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015</i> , 2015, 4326-9	0.9	2
39	A cloud-based system for automatic glaucoma screening. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015</i> , 2015, 1596-9	0.9	3
38	A low-dimensional step pattern analysis algorithm with application to multimodal retinal image registration 2015 ,		18
37	Sparse dissimilarity-constrained coding for glaucoma screening. <i>IEEE Transactions on Biomedical Engineering, 2015</i> , 62, 1395-403	5	59
36	Registration of Color and OCT Fundus Images Using Low-dimensional Step Pattern Analysis. <i>Lecture Notes in Computer Science, 2015</i> , 214-221	0.9	2
35	Speckle reduction in optical coherence tomography by matrix completion using bilateral random projection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014</i> , 2014, 186-9	0.9	3
34	Automated analysis of angle closure from anterior chamber angle images 2014 , 55, 7669-73		9
33	Automatic atherosclerotic heart disease detection in intracoronary optical coherence tomography images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014</i> , 2014, 174-7	0.9	0
32	Multiple Modality Fusion for Glaucoma Diagnosis. <i>IFMBE Proceedings, 2014</i> , 5-8	0.2	4
31	Speckle reduction in optical coherence tomography by image registration and matrix completion. <i>Lecture Notes in Computer Science, 2014</i> , 17, 162-9	0.9	6
30	Automatic Segmentation of Retinal Images for Glaucoma Screening 2014 , 233-253		
29	ACHIKO-I retinal fundus image database and its evaluation on cup-to-disc ratio measurement 2013 ,		1
28	Superpixel classification based optic disc and optic cup segmentation for glaucoma screening. <i>IEEE Transactions on Medical Imaging, 2013</i> , 32, 1019-32	11.7	327
27	Automatic glaucoma diagnosis through medical imaging informatics. <i>Journal of the American Medical Informatics Association: JAMIA, 2013</i> , 20, 1021-7	8.6	20

26	Automated anterior chamber angle localization and glaucoma type classification in OCT images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013, 2013, 7380-3</i>	0.9	8
25	Self-assessment for optic disc segmentation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013, 2013, 5861-4</i>	0.9	2
24	Superpixel Classification Based Optic Disc Segmentation. <i>Lecture Notes in Computer Science, 2013, 293-304</i>		3
23	Superpixel classification based optic cup segmentation. <i>Lecture Notes in Computer Science, 2013, 16, 421-8</i>	0.9	6
22	Peripapillary atrophy detection by sparse biologically inspired feature manifold. <i>IEEE Transactions on Medical Imaging, 2012, 31, 2355-65</i>	11.7	14
21	Early age-related macular degeneration detection by focal biologically inspired feature 2012,		17
20	Superpixel classification for initialization in model based optic disc segmentation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 1450-3</i>	0.9	4
19	Reproducibility of Corneal Graft Thickness measurements with COLGATE in patients who have undergone DSAEK (Descemet Stripping Automated Endothelial Keratoplasty). <i>BMC Medical Imaging, 2012, 12, 25</i>	2.9	0
18	Efficient optic cup localization using regional propagation based on retinal structure priors. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 1430-3</i>	0.9	0
17	Sector-based optic cup segmentation with intensity and blood vessel priors. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 1454-7</i>	0.9	
16	Pathological Myopia detection from selective fundus image features 2012,		2
15	Automatic optic disc segmentation with peripapillary atrophy elimination. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 6224-7</i>	0.9	19
14	Sliding window and regression based cup detection in digital fundus images for glaucoma diagnosis. <i>Lecture Notes in Computer Science, 2011, 14, 1-8</i>	0.9	29
13	Focal edge association to glaucoma diagnosis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 4481-4</i>	0.9	1
12	Focal biologically inspired feature for glaucoma type classification. <i>Lecture Notes in Computer Science, 2011, 14, 91-8</i>	0.9	6
11	Closed angle glaucoma detection in RetCam images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010, 2010, 4096-9</i>	0.9	3
10	Corneal graft detection for Descemet's stripping automated endothelial keratoplasty using optical coherence tomography. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010, 2010, 3037-40</i>	0.9	1
9	ORIGA(-light): an online retinal fundus image database for glaucoma analysis and research. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010, 2010, 3065-8</i>	0.9	98

8	Steganalysis of halftone image using inverse halftoning. <i>Signal Processing</i> , 2009 , 89, 1000-1010	4.4	9
7	Steganalysis of Binary Cartoon Image using Distortion Measure 2007 ,		2
6	Objective distortion measure for binary text image based on edge line segment similarity. <i>IEEE Transactions on Image Processing</i> , 2007 , 16, 1691-5	8.7	21
5	A Test-bed for Above-knee Intelligent Prosthesis 2006 ,		2
4	Detection of data hiding in binary text images 2005 ,		2
3	Steganalysis of data hiding in binary text images		7
2	Secure data hiding in binary document images for authentication		3
1	Objective distortion measure for binary images		8