

Jiong Zhang

List of Publications by Year in descending order

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48
papers

1,356
citations

430754

18
h-index

360920

35
g-index

50
all docs

50
docs citations

50
times ranked

1382
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Retinal Vessel Segmentation via Locally Adaptive Derivative Frames in Orientation Scores. IEEE Transactions on Medical Imaging, 2016, 35, 2631-2644.	5.4	300
2	ROSE: A Retinal OCT-Angiography Vessel Segmentation Dataset and New Model. IEEE Transactions on Medical Imaging, 2021, 40, 928-939.	5.4	137
3	Retinal vessel delineation using a brain-inspired wavelet transform and random forest. Pattern Recognition, 2017, 69, 107-123.	5.1	99
4	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.	2.9	88
5	Retinal Microaneurysms Detection Using Local Convergence Index Features. IEEE Transactions on Image Processing, 2018, 27, 3300-3315.	6.0	79
6	Structure and Illumination Constrained GAN for Medical Image Enhancement. IEEE Transactions on Medical Imaging, 2021, 40, 3955-3967.	5.4	60
7	Past, present and future role of retinal imaging in neurodegenerative disease. Progress in Retinal and Eye Research, 2021, 83, 100938.	7.3	60
8	Reliability of Using Retinal Vascular Fractal Dimension as a Biomarker in the Diabetic Retinopathy Detection. Journal of Ophthalmology, 2016, 2016, 1-13.	0.6	52
9	3D Shape Modeling and Analysis of Retinal Microvasculature in OCT-Angiography Images. IEEE Transactions on Medical Imaging, 2020, 39, 1335-1346.	5.4	45
10	Biologically-Inspired Supervised Vasculature Segmentation in SLO Retinal Fundus Images. Lecture Notes in Computer Science, 2015, , 325-334.	1.0	36
11	Multi-modal and multi-vendor retina image registration. Biomedical Optics Express, 2018, 9, 410.	1.5	36
12	Automated Tortuosity Analysis of Nerve Fibers in Corneal Confocal Microscopy. IEEE Transactions on Medical Imaging, 2020, 39, 2725-2737.	5.4	29
13	Angle-closure assessment in anterior segment OCT images via deep learning. Medical Image Analysis, 2021, 69, 101956.	7.0	28
14	Minimal Paths for Tubular Structure Segmentation With Coherence Penalty and Adaptive Anisotropy. IEEE Transactions on Image Processing, 2019, 28, 1271-1284.	6.0	25
15	Brain-inspired algorithms for retinal image analysis. Machine Vision and Applications, 2016, 27, 1117-1135.	1.7	22
16	A Hybrid DCNN-SVM Model for Classifying Neonatal Sleep and Wake States Based on Facial Expressions in Video. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1441-1449.	3.9	22
17	Automatic Optic Disc and Fovea Detection in Retinal Images Using Super-Elliptical Convergence Index Filters. Lecture Notes in Computer Science, 2016, , 697-706.	1.0	22
18	Multi-Scale Pathological Fluid Segmentation in OCT With a Novel Curvature Loss in Convolutional Neural Network. IEEE Transactions on Medical Imaging, 2022, 41, 1547-1559.	5.4	20

#	ARTICLE	IF	CITATIONS
19	Robust and Fast Vessel Segmentation via Gaussian Derivatives in Orientation Scores. Lecture Notes in Computer Science, 2015, , 537-547.	1.0	18
20	Numerical Approaches for Linear Left-invariant Diffusions on $SE(2)$, their Comparison to Exact Solutions, and their Applications in Retinal Imaging. Numerical Mathematics, 2016, 9, 1-50.	0.6	18
21	Type 2 diabetes and HbA1c are independently associated with wider retinal arterioles: the Maastricht study. Diabetologia, 2020, 63, 1408-1417.	2.9	18
22	Curvature Based Biomarkers for Diabetic Retinopathy via Exponential Curve Fits in $SE(2)$. , 0, , .		18
23	Automated Deformation-Based Analysis of 3D Optical Coherence Tomography in Diabetic Retinopathy. IEEE Transactions on Medical Imaging, 2020, 39, 236-245.	5.4	14
24	3D Retinal Vessel Density Mapping With OCT-Angiography. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3466-3479.	3.9	13
25	Uncertainty-guided graph attention network for parapneumonic effusion diagnosis. Medical Image Analysis, 2022, 75, 102217.	7.0	13
26	Reconnection of Interrupted Curvilinear Structures via Cortically Inspired Completion for Ophthalmologic Images. IEEE Transactions on Biomedical Engineering, 2018, 65, 1151-1165.	2.5	10
27	Automatic corneal nerve fiber segmentation and geometric biomarker quantification. European Physical Journal Plus, 2020, 135, 1.	1.2	10
28	Stability Analysis of Fractal Dimension in Retinal Vasculature. , 0, , .		10
29	A Comparative Study Towards the Establishment of an Automatic Retinal Vessel Width Measurement Technique. Lecture Notes in Computer Science, 2017, , 227-234.	1.0	6
30	Retrieving challenging vessel connections in retinal images by line co-occurrence statistics. Biological Cybernetics, 2017, 111, 237-247.	0.6	5
31	3D Vessel Reconstruction In Oct-Angiography Via Depth Map Estimation. , 2021, , .		5
32	Automated Segmentation of Trigeminal Nerve and Cerebrovasculature in MR-Angiography Images by Deep Learning. Frontiers in Neuroscience, 2021, 15, 744967.	1.4	5
33	Retinal health information and notification system (RHINO). , 2017, , .		4
34	Association of Tau Pathology With Clinical Symptoms in the Subfields of Hippocampal Formation. Frontiers in Aging Neuroscience, 2021, 13, 672077.	1.7	4
35	Outer Retinal Layer Thickness Changes in White Matter Hyperintensity and Parkinson's Disease. Frontiers in Neuroscience, 2021, 15, 741651.	1.4	4
36	Cross-Domain Depth Estimation Network for 3D Vessel Reconstruction in OCT Angiography. Lecture Notes in Computer Science, 2021, , 13-23.	1.0	3

#	ARTICLE	IF	CITATIONS
37	Infrastructure for Retinal Image Analysis. , 0, , .		3
38	3D Surface-Based Geometric and Topological Quantification of Retinal Microvasculature in OCT-Angiography via Reeb Analysis. Lecture Notes in Computer Science, 2019, , 57-65.	1.0	3
39	A fully automated pipeline of extracting biomarkers to quantify vascular changes in retina-related diseases. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2019, 7, 616-631.	1.3	2
40	Analysis of Retinal Vascular Biomarkers for Early Detection of Diabetes. Lecture Notes in Computational Vision and Biomechanics, 2018, , 811-817.	0.5	2
41	Automatic choroid layer segmentation in OCT images via context efficient adaptive network. Applied Intelligence, 0, , .	3.3	2
42	Vascular biomarkers for diabetes and diabetic retinopathy screening. , 2019, , 319-352.		1
43	Automatic Tortuosity Estimation of Nerve Fibers and Retinal Vessels in Ophthalmic Images. Applied Sciences (Switzerland), 2020, 10, 4788.	1.3	1
44	Corrections to "Automated Tortuosity Analysis of Nerve Fibers in Corneal Confocal Microscopy" IEEE Transactions on Medical Imaging, 2020, 39, 3758-3758.	5.4	1
45	Behavior and amyloid profiles modify the association of tauopathy/neurodegeneration and cognitive decline in Alzheimer's disease. Alzheimer's and Dementia, 2020, 16, e040049.	0.4	0
46	Geometric Connectivity Analysis Based on Edge Co-Occurrences in Retinal Images. , 0, , .		0
47	Bridging Disconnected Curvilinear Structures via Numerical Evolutions of Completion Process in Ophthalmologic Images. , 0, , .		0
48	Validation Study on Retinal Vessel Caliber Measurement Technique. Lecture Notes in Computational Vision and Biomechanics, 2018, , 818-826.	0.5	0