

Yalin Zheng

List of Publications by Year in descending order

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147
papers

4,228
citations

185998

28
h-index

149479

56
g-index

155
all docs

155
docs citations

155
times ranked

3920
citing authors

#	ARTICLE	IF	CITATIONS
1	Convolutional Neural Networks for Diabetic Retinopathy. <i>Procedia Computer Science</i> , 2016, 90, 200-205.	1.2	593
2	Automated Vessel Segmentation Using Infinite Perimeter Active Contour Model with Hybrid Region Information with Application to Retinal Images. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 1797-1807.	5.4	337
3	CS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msup><mml:mrow /><mml:mn>2</mml:mn></mml:msup></mml:math>-Net: Deep learning segmentation of curvilinear structures in medical imaging. <i>Medical Image Analysis</i> , 2021, 67, 101874.	7.0	166
4	Learning Active Contour Models for Medical Image Segmentation. , 2019, , .		155
5	ROSE: A Retinal OCT-Angiography Vessel Segmentation Dataset and New Model. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 928-939.	5.4	137
6	Dense Fully Convolutional Segmentation of the Optic Disc and Cup in Colour Fundus for Glaucoma Diagnosis. <i>Symmetry</i> , 2018, 10, 87.	1.1	131
7	CS-Net: Channel and Spatial Attention Network for Curvilinear Structure Segmentation. <i>Lecture Notes in Computer Science</i> , 2019, , 721-730.	1.0	131
8	Multiscale sequential convolutional neural networks for simultaneous detection of fovea and optic disc. <i>Biomedical Signal Processing and Control</i> , 2018, 40, 91-101.	3.5	96
9	Automatic 2-D/3-D Vessel Enhancement in Multiple Modality Images Using a Weighted Symmetry Filter. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 438-450.	5.4	91
10	An artificial intelligence-based deep learning algorithm for the diagnosis of diabetic neuropathy using corneal confocal microscopy: a development and validation study. <i>Diabetologia</i> , 2020, 63, 419-430.	2.9	88
11	Retinal Vessel Segmentation: An Efficient Graph Cut Approach with Retinex and Local Phase. <i>PLoS ONE</i> , 2015, 10, e0122332.	1.1	78
12	Automated Segmentation of Foveal Avascular Zone in Fundus Fluorescein Angiography. , 2010, 51, 3653.		75
13	Automated "Disease/No Disease" Grading of Age-Related Macular Degeneration by an Image Mining Approach. , 2012, 53, 8310.		73
14	Measurement of the Intertablet Coating Uniformity of a Pharmaceutical Pan Coating Process With Combined Terahertz and Optical Coherence Tomography In-Line Sensing. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 1075-1084.	1.6	69
15	Intensity and Compactness Enabled Saliency Estimation for Leakage Detection in Diabetic and Malarial Retinopathy. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 51-63.	5.4	67
16	Computerized Assessment of Intraretinal and Subretinal Fluid Regions in Spectral-Domain Optical Coherence Tomography Images of the Retina. <i>American Journal of Ophthalmology</i> , 2013, 155, 277-286.e1.	1.7	62
17	Automated Segmentation of Lumbar Vertebrae in Digital Videofluoroscopic Images. <i>IEEE Transactions on Medical Imaging</i> , 2004, 23, 45-52.	5.4	60
18	Imaging and Evaluation of Corneal Vascularization Using Fluorescein and Indocyanine Green Angiography. , 2012, 53, 650.		60

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19	FCNN: Fourier Convolutional Neural Networks. Lecture Notes in Computer Science, 2017, , 786-798.	1.0	55
20	Corneal Angiography for Guiding and Evaluating Fine-Needle Diathermy Treatment of Corneal Neovascularization. Ophthalmology, 2015, 122, 1079-1084.	2.5	53
21	Saliency driven vasculature segmentation with infinite perimeter active contour model. Neurocomputing, 2017, 259, 201-209.	3.5	53
22	Automated glaucoma diagnosis using deep learning approach. , 2017, , .		53
23	Fast segmentation of anterior segment optical coherence tomography images using graph cut. Eye and Vision (London, England), 2015, 2, 1.	1.4	52
24	Quantifying Changes in Corneal Neovascularization Using Fluorescein and Indocyanine Green Angiography. American Journal of Ophthalmology, 2012, 154, 850-858.e2.	1.7	50
25	Spatial Uncertainty-Aware Semi-Supervised Crowd Counting. , 2021, , .		48
26	Imaging of Corneal Neovascularization: Optical Coherence Tomography Angiography and Fluorescence Angiography. , 2018, 59, 1263.		47
27	Retinal Vascular Network Topology Reconstruction and Artery/Vein Classification via Dominant Set Clustering. IEEE Transactions on Medical Imaging, 2020, 39, 341-356.	5.4	46
28	Data mining techniques for the screening of age-related macular degeneration. Knowledge-Based Systems, 2012, 29, 83-92.	4.0	36
29	A Comprehensive Texture Segmentation Framework for Segmentation of Capillary Non-Perfusion Regions in Fundus Fluorescein Angiograms. PLoS ONE, 2014, 9, e93624.	1.1	35
30	Automatic segmentation of anterior segment optical coherence tomography images. Journal of Biomedical Optics, 2013, 18, 056003.	1.4	33
31	Reconstruction of 3D surface maps from anterior segment optical coherence tomography images using graph theory and genetic algorithms. Biomedical Signal Processing and Control, 2016, 25, 91-98.	3.5	33
32	Introducing the GEV Activation Function for Highly Unbalanced Data to Develop COVID-19 Diagnostic Models. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2776-2786.	3.9	33
33	Automated Detection of Leakage in Fluorescein Angiography Images with Application to Malarial Retinopathy. Scientific Reports, 2015, 5, 10425.	1.6	32
34	High resolution corneal and single pulse imaging with line field spectral domain optical coherence tomography. Optics Express, 2016, 24, 12395.	1.7	31
35	Retinal Artery and Vein Classification via Dominant Sets Clustering-Based Vascular Topology Estimation. Lecture Notes in Computer Science, 2018, , 56-64.	1.0	31
36	Graph-Based Region and Boundary Aggregation for Biomedical Image Segmentation. IEEE Transactions on Medical Imaging, 2022, 41, 690-701.	5.4	30

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37	Associations with Corneal Hysteresis in a Population Cohort. <i>Ophthalmology</i> , 2019, 126, 1500-1510.	2.5	29
38	Automated Tortuosity Analysis of Nerve Fibers in Corneal Confocal Microscopy. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2725-2737.	5.4	29
39	Lumbar spine visualisation based on kinematic analysis from videofluoroscopic imaging. <i>Medical Engineering and Physics</i> , 2003, 25, 171-179.	0.8	28
40	Accurate, fast, data efficient and interpretable glaucoma diagnosis with automated spatial analysis of the whole cup to disc profile. <i>PLoS ONE</i> , 2019, 14, e0209409.	1.1	27
41	Deep-Channel uses deep neural networks to detect single-molecule events from patch-clamp data. <i>Communications Biology</i> , 2020, 3, 3.	2.0	27
42	Piloting a Deep Learning Model for Predicting Nuclear BAP1 Immunohistochemical Expression of Uveal Melanoma from Hematoxylin-and-Eosin Sections. <i>Translational Vision Science and Technology</i> , 2020, 9, 50.	1.1	26
43	Keratoconus detection of changes using deep learning of colour-coded maps. <i>BMJ Open Ophthalmology</i> , 2021, 6, e000824.	0.8	26
44	CNN-GCN Aggregation Enabled Boundary Regression for Biomedical Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2020, , 352-362.	1.0	26
45	Angiographic and In Vivo Confocal Microscopic Characterization of Human Corneal Blood and Presumed Lymphatic Neovascularization. <i>Cornea</i> , 2015, 34, 1459-1465.	0.9	25
46	Nondestructive analysis of automotive paints with spectral domain optical coherence tomography. <i>Applied Optics</i> , 2016, 55, 3695.	2.1	25
47	UV imaging reveals facial areas that are prone to skin cancer are disproportionately missed during sunscreen application. <i>PLoS ONE</i> , 2017, 12, e0185297.	1.1	25
48	Neurovascular sequestration in paediatric <i>P. falciparum</i> malaria is visible clinically in the retina. <i>ELife</i> , 2018, 7, .	2.8	24
49	Artificial intelligence utilising corneal confocal microscopy for the diagnosis of peripheral neuropathy in diabetes mellitus and prediabetes. <i>Diabetologia</i> , 2022, 65, 457-466.	2.9	24
50	Marginal Corneal Vascular Arcades. , 2013, 54, 7470.		22
51	Automated layer segmentation of macular OCT images via graph-based SLIC superpixels and manifold ranking approach. <i>Computerized Medical Imaging and Graphics</i> , 2017, 55, 42-53.	3.5	22
52	Deformation velocity imaging using optical coherence tomography and its applications to the cornea. <i>Biomedical Optics Express</i> , 2017, 8, 5579.	1.5	22
53	Non-destructive analysis of flake properties in automotive paints with full-field optical coherence tomography and 3D segmentation. <i>Optics Express</i> , 2017, 25, 18614.	1.7	22
54	Corneal nerve tortuosity grading via ordered weighted averaging-based feature extraction. <i>Medical Physics</i> , 2020, 47, 4983-4996.	1.6	18

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55	Automated Detection of Vessel Abnormalities on Fluorescein Angiogram in Malarial Retinopathy. Scientific Reports, 2015, 5, 11154.	1.6	17
56	Uniqueness-Driven Saliency Analysis for Automated Lesion Detection with Applications to Retinal Diseases. Lecture Notes in Computer Science, 2018, , 109-118.	1.0	17
57	Automated segmentation of the choroid in retinal optical coherence tomography images. , 2013, 2013, 5869-72.		16
58	TransBridge: A Lightweight Transformer for Left Ventricle Segmentation in Echocardiography. Lecture Notes in Computer Science, 2021, , 63-72.	1.0	16
59	Improving Fetal Head Contour Detection by Object Localisation with Deep Learning. Communications in Computer and Information Science, 2020, , 142-150.	0.4	16
60	Scan-Less Line Field Optical Coherence Tomography, with Automatic Image Segmentation, as a Measurement Tool for Automotive Coatings. Applied Sciences (Switzerland), 2017, 7, 351.	1.3	15
61	Automatic Detection and Distinction of Retinal Vessel Bifurcations and Crossings in Colour Fundus Photography. Journal of Imaging, 2018, 4, 4.	1.7	15
62	Retinal Image Classification for the Screening of Age-Related Macular Degeneration. , 2011, , 325-338.		15
63	Regression of Instance Boundary by Aggregated CNN and GCN. Lecture Notes in Computer Science, 2020, , 190-207.	1.0	14
64	Obstacle Avoidance for Unmanned Undersea Vehicle in Unknown Unstructured Environment. Mathematical Problems in Engineering, 2013, 2013, 1-12.	0.6	13
65	A pipeline to evaluate inhibitors of the Pseudomonas aeruginosa exotoxin U. Biochemical Journal, 2021, 478, 647-668.	1.7	13
66	Reduction of False Positives in Polyp Detection Using Weighted Support Vector Machines. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4433-6.	0.5	12
67	Retinal image classification using a histogram based approach. , 2010, , .		12
68	A general model for multiphase texture segmentation and its applications to retinal image analysis. Biomedical Signal Processing and Control, 2013, 8, 374-381.	3.5	12
69	Pharmacokinetics of Meropenem for Use in Bacterial Keratitis. , 2015, 56, 5731.		12
70	Spatial statistical modelling of capillary non-perfusion in the retina. Scientific Reports, 2017, 7, 16792.	1.6	11
71	Identification of Feeder Vessels in Ocular Surface Neoplasia Using Indocyanine Green Angiography. Current Eye Research, 2018, 43, 163-169.	0.7	11
72	Development and validation of a novel prognostic model for predicting AMD progression using longitudinal fundus images. BMJ Open Ophthalmology, 2020, 5, e000569.	0.8	11

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73	Imaging of vascular abnormalities in ocular surface disease. <i>Survey of Ophthalmology</i> , 2022, 67, 31-51.	1.7	11
74	Cycle Structure and Illumination Constrained GAN for Medical Image Enhancement. <i>Lecture Notes in Computer Science</i> , 2020, , 667-677.	1.0	11
75	A Hierarchical Algorithm for Multiphase Texture Image Segmentation. <i>ISRN Signal Processing</i> , 2012, 2012, 1-11.	2.9	11
76	Automated retinal lesion detection via image saliency analysis. <i>Medical Physics</i> , 2019, 46, 4531-4544.	1.6	10
77	Line-Field Optical Coherence Tomography as a tool for In vitro characterization of corneal biomechanics under physiological pressures. <i>Scientific Reports</i> , 2019, 9, 6321.	1.6	10
78	Topology Reconstruction of Tree-Like Structure in Images via Structural Similarity Measure and Dominant Set Clustering. , 2019, , .		10
79	Volumetric image classification using homogeneous decomposition and dictionary learning: A study using retinal optical coherence tomography for detecting age-related macular degeneration. <i>Computerized Medical Imaging and Graphics</i> , 2017, 55, 113-123.	3.5	9
80	Application of SPF moisturisers is inferior to sunscreens in coverage of facial and eyelid regions. <i>PLoS ONE</i> , 2019, 14, e0212548.	1.1	9
81	Cooperative Low-Rank Models for Removing Stripe Noise From OCTA Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 3480-3490.	3.9	9
82	Learning Unsupervised Parameter-Specific Affine Transformation for Medical Images Registration. <i>Lecture Notes in Computer Science</i> , 2021, , 24-34.	1.0	9
83	Standardization of choroidal thickness measurements using enhanced depth imaging optical coherence tomography. <i>International Journal of Ophthalmology</i> , 2015, 8, 484-91.	0.5	9
84	Simultaneous optical coherence tomography and Scheimpflug imaging using the same incident light. <i>Optics Express</i> , 2020, 28, 39660.	1.7	8
85	Sub-surface imaging of soiled cotton fabric using full-field optical coherence tomography. <i>Optics Express</i> , 2019, 27, 13951.	1.7	7
86	Machine learning-based predictions of dietary restriction associations across ageing-related genes. <i>BMC Bioinformatics</i> , 2022, 23, 10.	1.2	7
87	Automatic Feature Learning Method for Detection of Retinal Landmarks. , 2016, , .		6
88	Topographical Response of Retinal Neovascularization to Aflibercept or Panretinal Photocoagulation in Proliferative Diabetic Retinopathy. <i>JAMA Ophthalmology</i> , 2021, 139, 501.	1.4	6
89	Classification of Retinal Vessels into Artery-Vein in OCT Angiography Guided by Fundus Images. <i>Lecture Notes in Computer Science</i> , 2020, , 117-127.	1.0	6
90	Image Classification Using Histograms and Time Series Analysis: A Study of Age-Related Macular Degeneration Screening in Retinal Image Data. <i>Lecture Notes in Computer Science</i> , 2010, , 197-209.	1.0	6

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91	Fast Blur Detection and Parametric Deconvolution of Retinal Fundus Images. Lecture Notes in Computer Science, 2017, , 194-201.	1.0	5
92	A Novel Choroid Segmentation Method for Retinal Diagnosis Using Deep Learning. , 2017, , .		5
93	3D Vessel Reconstruction In Oct-Angiography Via Depth Map Estimation. , 2021, , .		5
94	Accuracy of a Machine-Learning Algorithm for Detecting and Classifying Choroidal Neovascularization on Spectral-Domain Optical Coherence Tomography. Journal of Personalized Medicine, 2021, 11, 524.	1.1	5
95	Artificial intelligence to detect abnormal heart rhythm from scanned electrocardiogram tracings. Journal of Arrhythmia, 2022, 38, 425-431.	0.5	5
96	Simultaneous feature selection and classification based on genetic algorithms: an application to colonic polyp detection. Proceedings of SPIE, 2008, , .	0.8	4
97	Learning from imbalanced data: a comparative study for colon CAD. , 2008, , .		4
98	Measurement and Computer Modeling of Temporary Arrangements of Polygonal Actin Structures in Trabecular Meshwork Cells Which Consist of Cross-Linked Actin Networks and Polygonal Actin Arrangements. Journal of Ocular Pharmacology and Therapeutics, 2014, 30, 224-236.	0.6	4
99	An effective variational model for simultaneous reconstruction and segmentation of blurred images. Journal of Algorithms and Computational Technology, 2016, 10, 244-264.	0.4	4
100	Retinal vascular topology estimation via dominant sets clustering. , 2018, , .		4
101	Differentiating Generic versus Branded Pharmaceutical Tablets Using Ultra-High-Resolution Optical Coherence Tomography. Coatings, 2019, 9, 326.	1.2	4
102	Detecting Change in Conjunctival Hyperemia Using a Pixel Densitometry Index. Ocular Immunology and Inflammation, 2019, 27, 276-281.	1.0	4
103	Motif Based Feature Vectors: Towards a Homogeneous Data Representation for Cardiovascular Diseases Classification. Lecture Notes in Computer Science, 2021, , 235-241.	1.0	4
104	Predictive Association of Pre-Operative Defect Areas in the Outer Retinal Layers With Visual Acuity in Macular Hole Surgery. Translational Vision Science and Technology, 2021, 10, 7.	1.1	4
105	Exploiting Reliability-Guided Aggregation for the Assessment of Curvilinear Structure Tortuosity. Lecture Notes in Computer Science, 2019, , 12-20.	1.0	4
106	Time Series Case Based Reasoning for Image Categorisation. Lecture Notes in Computer Science, 2011, , 423-436.	1.0	4
107	A compactness based saliency approach for leakages detection in fluorescein angiogram. International Journal of Machine Learning and Cybernetics, 2017, 8, 1971-1979.	2.3	3
108	Improving the Resolution of Retinal OCT with Deep Learning. Communications in Computer and Information Science, 2018, , 325-332.	0.4	3

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109	Drusen and macular degeneration. , 2019, , 245-272.		3
110	Cross-Domain Depth Estimation Network for 3D Vessel Reconstruction in OCT Angiography. Lecture Notes in Computer Science, 2021, , 13-23.	1.0	3
111	Supercontinuum ultra-high resolution line-field OCT; experimental spectrograph comparison and comparison with current clinical OCT systems by the imaging of a human cornea. , 2018, , .		3
112	Applications of optical coherence tomography in the non-contact assessment of automotive paints. , 2017, , .		3
113	Automatic lumbar vertebrae segmentation in fluoroscopic images via optimised concurrent Hough transform. , 0, , .		2
114	Volumetric image mining based on decomposition and graph analysis: An application to retinal optical coherence tomography. , 2012, , .		2
115	Classification of volumetric retinal images using overlapping decomposition and tree analysis. , 2013, , .		2
116	Studying the pharmaceutical film coating process with terahertz sensing, optical coherence tomography and numerical modelling. , 2016, , .		2
117	Spatial Linear Mixed Effects Modelling for OCT Images: SLME Model. Journal of Imaging, 2020, 6, 44.	1.7	2
118	Quasi-tomography by free space line field spectral domain optical coherence reflectometry. Measurement Science and Technology, 2020, 31, 065203.	1.4	2
119	Dictionary Learning-Based Volumetric Image Classification for the Diagnosis of Age-Related Macular Degeneration. Lecture Notes in Computer Science, 2014, , 272-284.	1.0	2
120	Hierarchical Detection of Hard Exudates in Color Retinal Images. Journal of Software, 2013, 8, .	0.6	2
121	DAISY Descriptors Combined with Deep Learning to Diagnose Retinal Disease from High Resolution 2D OCT Images. Communications in Computer and Information Science, 2020, , 489-496.	0.4	2
122	Age-Related Macular Degeneration Screening Using Data Mining Approaches. , 2013, , .		1
123	Intra-retinal layers segmentation of macular OCT images based on the graph optimal approach. , 2016, , .		1
124	Thickness measurements of ten intra-retinal layers from optical coherent tomography images using a super-pixels and manifold ranking approach. , 2016, , .		1
125	Automated Artery-Vein Classification in Fundus Color Images. Communications in Computer and Information Science, 2016, , 228-237.	0.4	1
126	Spatial and spatio-temporal statistical analyses of retinal images: a review of methods and applications. BMJ Open Ophthalmology, 2020, 5, e000479.	0.8	1

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127	End-to-End Deep Learning Vector Autoregressive Prognostic Models to Predict Disease Progression with Uneven Time Intervals. Lecture Notes in Computer Science, 2021, , 517-531.	1.0	1
128	Automatic Detection and Identification of Retinal Vessel Junctions in Colour Fundus Photography. Communications in Computer and Information Science, 2017, , 27-37.	0.4	1
129	2D transform-domain Fourier filters for eliminating microsaccade noise in en face optical coherence tomography angiography. , 2019, , .		1
130	Deep Vectorization Convolutional Neural Networks for Denoising in Mammogram Using Enhanced Image. Communications in Computer and Information Science, 2020, , 220-227.	0.4	1
131	AI-Based Method for Detecting Retinal Haemorrhage in Eyes with Malarial Retinopathy. Communications in Computer and Information Science, 2020, , 439-449.	0.4	1
132	Data Mining for AMD Screening: A Classification Based Approach. International Journal of Simulation: Systems, Science and Technology, 0, , .	0.0	1
133	Corrections to "Automated Tortuosity Analysis of Nerve Fibers in Corneal Confocal Microscopy" IEEE Transactions on Medical Imaging, 2020, 39, 3758-3758.	5.4	1
134	Informed Consent In Facial Photograph Publishing: A Cross-sectional Pilot Study To Determine The Effectiveness Of Deidentification Methods. Journal of Empirical Research on Human Research Ethics, 2022, , 155626462210754.	0.6	1
135	Bridging the Gap Between Artificial Intelligence Research and Clinical Practice in Cardiovascular Science: What the Clinician Needs to Know. Arrhythmia and Electrophysiology Review, 2022, 11, e03.	1.3	1
136	Alignment of dynamic contrast-enhanced MR volumes of the breast for a multicenter trial: an exemplar grid application. , 2004, , .		0
137	Reduction of false positives by extracting fuzzy rules from data for polyp detection in CTC scans. Proceedings of SPIE, 2008, , .	0.8	0
138	Underwater Environment SDAP Method Using Multi Single-Beam Sonars. Mathematical Problems in Engineering, 2013, 2013, 1-17.	0.6	0
139	The Application of Full-Field Optical Coherence Tomography on Evaluating Film Coating of Pharmaceutical Pellets. , 2015, , .		0
140	Cerebral vascular enhancement using a weighted 3D symmetry filter. , 2017, , .		0
141	Proof on Concept: Semi-Automated Alignment of Evar Surveillance Radiographs " Increasing the Sensitivity to Device Migration and Distortion. European Journal of Vascular and Endovascular Surgery, 2019, 58, e109.	0.8	0
142	Guided Adversarial Adaptation Network for Retinal and Choroidal Layer Segmentation. Lecture Notes in Computer Science, 2021, , 82-91.	1.0	0
143	Dictionary Learning Informed Deep Neural Network with Application to OCT Images. Lecture Notes in Computer Science, 2019, , 1-8.	1.0	0
144	Automated Corneal Nerve Segmentation Using Weighted Local Phase Tensor. Communications in Computer and Information Science, 2020, , 459-469.	0.4	0

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145	Joint Destriping and Segmentation of OCTA Images. Communications in Computer and Information Science, 2020, , 423-435.	0.4	0
146	Spatial Modelling of Retinal Thickness in Images from Patients with Diabetic Macular Oedema. Communications in Computer and Information Science, 2020, , 114-126.	0.4	0
147	LiveOCT: An ultrahigh axial resolution line-field spectral domain optical coherence tomography system. , 2022, , .		0