

# Retinal image analysis: Concepts, applications and pote

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Citation Report

#	ARTICLE	IF	CITATIONS
1	VEGF-A, cytoskeletal dynamics, and the pathological vascular phenotype. <i>Experimental Cell Research</i> , 2006, 312, 538-548.	1.2	30
2	An automated microaneurysm detector as a tool for identification of diabetic retinopathy in rural optometric practice. <i>Australasian journal of optometry</i> , The, 2006, 89, 299-305.	0.6	43
3	Langerhans cells in cutaneous tumours: immunohistochemistry study using a computer image analysis system. <i>Journal of Molecular Histology</i> , 2006, 37, 321-325.	1.0	16
4	The development and validation of the Virtual Tissue Matrix, a software application that facilitates the review of tissue microarrays on line. <i>BMC Bioinformatics</i> , 2006, 7, 256.	1.2	13
5	Thickness dependent tortuosity estimation for retinal blood vessels. , 2006, 2006, 4675-8.		26
6	A reliability study of fractal analysis of the skeletonised vascular network using the "box-counting" technique. , 2006, 2006, 4445-8.		13
7	Ocular manifestations of systemic arterial hypertension. <i>Expert Review of Ophthalmology</i> , 2006, 1, 113-123.	0.3	0
8	Asymmetry of Retinal Arteriolar Branch Widths at Junctions Affects Ability of Formulae to Predict Trunk Arteriolar Widths. , 2006, 47, 1329.		38
9	Retinal Vascular Changes in Pre-Diabetes and Prehypertension. <i>Diabetes Care</i> , 2007, 30, 2708-2715.	4.3	215
10	Relationship of Retinal Vascular Caliber with Optic Disc Diameter in Children. , 2007, 48, 4945.		27
11	A Novel Method to Measure the Learning Capability of a Parameter in Artificial Neural Network with Application to Network Freezing. , 2007, , .		5
12	Detection of Blood Vessels in the Retina Using Gabor Filters. , 2007, , .		27
13	New microscopic pushbroom hyperspectral imaging system for application in diabetic retinopathy research. <i>Journal of Biomedical Optics</i> , 2007, 12, 064011.	1.4	18
14	Use of Fundus Imaging in Quantification of Age-related Macular Change. <i>Survey of Ophthalmology</i> , 2007, 52, 655-671.	1.7	59
15	Evaluation of a Computer-Based System for Plus Disease Diagnosis in Retinopathy of Prematurity. <i>Ophthalmology</i> , 2007, 114, e59-e67.	2.5	76
16	Imaging polarimetry and retinal blood vessel quantification at the epiretinal membrane. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, 1431.	0.8	20
17	Relationship of Axial Length and Retinal Vascular Caliber in Children. <i>American Journal of Ophthalmology</i> , 2007, 144, 658-662.e1.	1.7	41
18	Detection of Blood Vessels in Fundus Images of the Retina using Gabor Wavelets. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 6452-5.	0.5	25

#	ARTICLE	IF	CITATIONS
19	Detection of Anatomic Structures in Human Retinal Imagery. IEEE Transactions on Medical Imaging, 2007, 26, 1729-1739.	5.4	195
20	Gabor Wavelet Feature Based Face Recognition Using the Fractional Power Polynomial Kernel Fisher Discriminant Model. , 2007, , .		0
21	The Association between Retinal Vascular Network Geometry and Cognitive Ability in an Elderly Population. , 2007, 48, 1995.		70
22	A novel automatic image processing algorithm for detection of hard exudates based on retinal image analysis. Medical Engineering and Physics, 2008, 30, 350-357.	0.8	133
23	Diabetic retinopathy and systemic vascular complications. Progress in Retinal and Eye Research, 2008, 27, 161-176.	7.3	187
24	Use of fundus perimetry (microperimetry) to quantify macular sensitivity. Progress in Retinal and Eye Research, 2008, 27, 536-548.	7.3	187
25	Retinal vessel enhancement based on directional field. , 2008, , .		3
26	Detection of blood vessels in the retina with multiscale Gabor filters. Journal of Electronic Imaging, 2008, 17, 023018.	0.5	68
27	Evaluation of a System for Automatic Detection of Diabetic Retinopathy From Color Fundus Photographs in a Large Population of Patients With Diabetes. Diabetes Care, 2008, 31, 193-198.	4.3	243
28	The Retinal Vasculature as a Fractal: Methodology, Reliability, and Relationship to Blood Pressure. Ophthalmology, 2008, 115, 1951-1956.e1.	2.5	180
29	Elliptical local vessel density: A fast and robust quality metric for retinal images. , 2008, 2008, 3534-7.		38
30	Ocular Biometrics: Simultaneous Capture and Analysis of the Retina and Iris. , 2008, , 133-155.		13
31	Systematic Review of Digital Imaging Screening Strategies for Retinopathy of Prematurity. Pediatrics, 2008, 122, 825-830.	1.0	49
32	Altitude-Related Illness and Retinal Vascular Geometry: A Hypothesis. High Altitude Medicine and Biology, 2008, 9, 341-342.	0.5	0
33	Retinal Arteriolar Narrowing Predicts Incidence of Diabetes. Diabetes, 2008, 57, 536-539.	0.3	93
34	Retinal Vascular Imaging. Circulation: Cardiovascular Imaging, 2008, 1, 156-161.	1.3	268
35	A quantification framework for post-lesion neo-vascularization in retinal angiography. , 2008, , .		5
36	Computerized Analysis of Retinal Vessel Width and Tortuosity in Premature Infants. , 2008, 49, 3577.		159

#	ARTICLE	IF	CITATIONS
37	AUTOMATED DIAGNOSIS OF RETINOPATHY BY CONTENT-BASED IMAGE RETRIEVAL. Retina, 2008, 28, 1463-1477.	1.0	67
38	Automated location of optic disk and fovea in color fundus images. , 2009, , .		1
39	Detection of the temporal arcade in fundus images of the retina using the hough transform. , 2009, 2009, 3585-8.		12
40	Quantitative Assessment of Early Diabetic Retinopathy Using Fractal Analysis. Diabetes Care, 2009, 32, 106-110.	4.3	179
41	Ridge-branch-based blood vessel detection algorithm for multimodal retinal images. Proceedings of SPIE, 2009, , .	0.8	6
42	Relationship of Retinal Vascular Caliber with Retinal Nerve Fiber Layer Thickness: The Singapore Malay Eye Study. , 2009, 50, 4091.		64
43	DETECTION OF BLOOD VESSELS FROM RETINAL IMAGES USING WATERSHED TRANSFORMATION. Journal of Mechanics in Medicine and Biology, 2009, 09, 633-642.	0.3	13
44	Neural network based detection of hard exudates in retinal images. Computer Methods and Programs in Biomedicine, 2009, 93, 9-19.	2.6	144
45	Ocular telehealth initiatives in diabetic retinopathy. Current Diabetes Reports, 2009, 9, 265-271.	1.7	18
46	Algorithms for digital image processing in diabetic retinopathy. Computerized Medical Imaging and Graphics, 2009, 33, 608-622.	3.5	207
47	Separation of the retinal vascular graph in arteries and veins based upon structural knowledge. Image and Vision Computing, 2009, 27, 864-875.	2.7	94
48	Diabetes Mellitus and Neurocognitive Dysfunction. , 2009, , 2973-3004.		0
49	Retinal Vascular Caliber: Systemic, Environmental, and Genetic Associations. Survey of Ophthalmology, 2009, 54, 74-95.	1.7	351
50	Plus Disease. Survey of Ophthalmology, 2009, 54, 663-670.	1.7	48
51	Relationship of Retinal Vascular Caliber with Optic Disc and Macular Structure. American Journal of Ophthalmology, 2009, 148, 368-375.	1.7	19
52	Recursive Algorithm for Blood Vessel Detection in Eye Fundus Images: Preliminary Results. IFMBE Proceedings, 2009, , 212-215.	0.2	2
53	Optimizing Sharpness Measure for Bright Lesion Detection in Retinal Image Analysis. , 2009, , .		0
54	Vascular Tree Construction with Anatomical Realism for Retinal Images. , 2009, , .		7

#	ARTICLE	IF	CITATIONS
55	Current Approaches to Retinopathy as a Predictor of Cardiovascular Risk. <i>Frontiers in Diabetes</i> , 2009, , 203-219.	0.4	5
56	Tele-Diabetic Retinopathy Screening and Image-Based Clinical Decision Support. , 2009, , .		0
57	Slitlamp Biomicroscopy and Photographic Image Analysis of Herpes Simplex Virus Stromal Keratitis. <i>JAMA Ophthalmology</i> , 2009, 127, 161.	2.6	9
58	New algorithm for detecting smaller retinal blood vessels in fundus images. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
59	Retinal microvascular structure: determinants and potential utility of novel imaging measurements. <i>Expert Review of Ophthalmology</i> , 2010, 5, 353-363.	0.3	2
60	Fourier cross-sectional profile for vessel detection on retinal images. <i>Computerized Medical Imaging and Graphics</i> , 2010, 34, 203-212.	3.5	31
61	Detection of the Optic Nerve Head in Fundus Images of the Retina Using the Hough Transform for Circles. <i>Journal of Digital Imaging</i> , 2010, 23, 332-341.	1.6	77
62	Detection of the Optic Nerve Head in Fundus Images of the Retina with Gabor Filters and Phase Portrait Analysis. <i>Journal of Digital Imaging</i> , 2010, 23, 438-453.	1.6	70
63	Segmentation of optic disc in retinal images using an improved gradient vector flow algorithm. <i>Multimedia Tools and Applications</i> , 2010, 49, 447-462.	2.6	15
64	General Retinal Vessel Segmentation Using Regularization-Based Multiconcavity Modeling. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 1369-1381.	5.4	232
65	Detecting the Optic Disc Boundary in Digital Fundus Images Using Morphological, Edge Detection, and Feature Extraction Techniques. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 1860-1869.	5.4	401
66	Segmentation of the optic disk in color eye fundus images using an adaptive morphological approach. <i>Computers in Biology and Medicine</i> , 2010, 40, 124-137.	3.9	144
67	Wavelet weighted blood vessel distortion measure for retinal images. <i>Biomedical Signal Processing and Control</i> , 2010, 5, 282-291.	3.5	19
68	Smaller Birth Size is Associated With Narrower Retinal Arterioles in Early Adolescence. <i>Microcirculation</i> , 2010, 17, 660-668.	1.0	41
69	Quality Assessment of Retinal Fundus Images using Elliptical Local Vessel Density. , 0, , .		19
70	Automated Segmentation of Foveal Avascular Zone in Fundus Fluorescein Angiography. , 2010, 51, 3653.		75
71	Relationship of Retinal Vascular Tortuosity with the Neuroretinal Rim: The Singapore Malay Eye Study. , 2010, 51, 3736.		29
72	Automatic optic disc detection through background estimation. , 2010, , .		11

#	ARTICLE	IF	CITATIONS
73	Retinal image classification using a histogram based approach. , 2010, , .		12
74	An integrated software solution for multi-modal mapping of morphological and functional ocular data. , 2010, 2010, 6280-3.		5
75	Automatic macula detection from retinal images by a line operator. , 2010, , .		17
76	An improved gradient vector flow algorithm for optic disc segmentation. , 2010, 2010, 4793-6.		0
77	RETINAL VASCULAR TREE CONSTRUCTION WITH MULTIMODAL FLUORESCHEIN ANGIOGRAM SEQUENCE. Biomedical Engineering - Applications, Basis and Communications, 2010, 22, 101-110.	0.3	3
78	Quantitative assessment of conjunctival microvascular circulation of the human eye. Microvascular Research, 2010, 79, 109-113.	1.1	61
79	Retinal Vascular Fractals and Microvascular and Macrovascular Complications in Type 1 Diabetes. Ophthalmology, 2010, 117, 1400-1405.	2.5	111
80	Temporal registration for low-quality retinal images of the murine eye. , 2010, 2010, 6272-5.		2
81	Contextual optic disc location in retinal fundus images. Journal of Modern Optics, 2010, 57, 136-144.	0.6	8
82	Fractal analysis of retinal microvasculature and coronary heart disease mortality. European Heart Journal, 2011, 32, 422-429.	1.0	124
83	Research and Development in Intelligent Systems XXVII. , 2011, , .		0
84	Digital Ocular Fundus Imaging: A Review. Ophthalmologica, 2011, 226, 161-181.	1.0	161
85	Detection and classification of diabetic retinopathy using retinal images. , 2011, , .		71
86	An automated vessel segmentation of retinal images using multiscale vesselness. , 2011, , .		13
87	Accuracy and Reliability of Telemedicine for Diagnosis of Cytomegalovirus Retinitis. American Journal of Ophthalmology, 2011, 152, 1053-1058.e1.	1.7	25
88	Effects of long term plant sterol and -stanol consumption on the retinal vasculature: A randomized controlled trial in statin users. Atherosclerosis, 2011, 214, 225-230.	0.4	31
89	Altered Blood Vessel Responses in the Eye and Finger in Coronary Artery Disease. , 2011, 52, 6199.		20
90	Influence of Refractive Error and Axial Length on Retinal Vessel Geometric Characteristics. , 2011, 52, 669.		73

#	ARTICLE	IF	CITATIONS
91	The Evidence for Automated Grading in Diabetic Retinopathy Screening. Current Diabetes Reviews, 2011, 7, 246-252.	0.6	27
93	Automatic Optic Disc Detection From Retinal Images by a Line Operator. IEEE Transactions on Biomedical Engineering, 2011, 58, 88-94.	2.5	92
94	Optic Disk and Cup Segmentation From Monocular Color Retinal Images for Glaucoma Assessment. IEEE Transactions on Medical Imaging, 2011, 30, 1192-1205.	5.4	333
95	Accurate and Efficient Optic Disc Detection and Segmentation by a Circular Transformation. IEEE Transactions on Medical Imaging, 2011, 30, 2126-2133.	5.4	151
96	Performance analysis of massively parallel embedded hardware architectures for retinal image processing. Eurasip Journal on Image and Video Processing, 2011, 2011, .	1.7	8
97	Effect of obesity on retinal vascular structure in pre-adolescent children. Pediatric Obesity, 2011, 6, e353-e359.	3.2	54
98	A Study on Hemorrhage Detection Using Hybrid Method in Fundus Images. Journal of Digital Imaging, 2011, 24, 394-404.	1.6	55
99	Retinal image analysis: preprocessing and feature extraction. Journal of Physics: Conference Series, 2011, 274, 012039.	0.3	23
100	Digital Image Processing for Ophthalmology: Detection of the Optic Nerve Head. Synthesis Lectures on Biomedical Engineering, 2011, 6, 1-106.	0.1	12
101	Dual-parabolic modeling of the superior and the inferior temporal arcades in fundus images of the retina. , 2011, , .		6
102	Tramline and NP windows estimation for enhanced unsupervised retinal vessel segmentation. , 2011, , .		0
103	Novel image processing techniques to detect lesions using lab view. , 2011, , .		3
104	Computer-Assisted Methods to Evaluate Retinal Vascular Caliber: What Are They Measuring?. Investigative Ophthalmology and Visual Science, 2011, 52, 810-815.	3.3	26
105	Telemedicine and Diabetic Retinopathy. JAMA Ophthalmology, 2011, 129, 236.	2.6	56
106	Edge enhancement for retinal vasculature caliber evaluation in prediction of cardiovascular disease. , 2011, , .		2
107	Detection of blood vessels in human retinal images using Ant Colony Optimisation method. International Journal of Biomedical Engineering and Technology, 2011, 5, 360.	0.2	7
108	VAMPIRE: Vessel assessment and measurement platform for images of the REtina. , 2011, 2011, 3391-4.		73
109	Carbohydrate nutrition is associated with changes in the retinal vascular structure and branching pattern in children. American Journal of Clinical Nutrition, 2012, 95, 1215-1222.	2.2	34

#	ARTICLE	IF	CITATIONS
110	Retinal Vessel Analysis as a Tool to Quantify Risk of Diabetic Retinopathy. Asia-Pacific Journal of Ophthalmology, 2012, 1, 240-244.	1.3	1
111	Screening For Diabetic Retinopathy: Review of Current Methods. Hospital Practice (1995), 2012, 40, 64-72.	0.5	5
112	Computer-aided diagnosis of proliferative diabetic retinopathy. , 2012, 2012, 1438-41.		9
113	Use of iris recognition camera technology for the quantification of corneal opacification in mucopolysaccharidoses. British Journal of Ophthalmology, 2012, 96, 1466-1468.	2.1	18
114	Retinal Vascular Imaging for Cardiovascular Risk Prediction. , 2012, , 77-89.		0
115	Parapapillary atrophy and optic disc region assessment (PANDORA): retinal imaging tool for assessment of the optic disc and parapapillary atrophy. Journal of Biomedical Optics, 2012, 17, 1060101.	1.4	14
116	Peripapillary Atrophy Detection by Sparse Biologically Inspired Feature Manifold. IEEE Transactions on Medical Imaging, 2012, 31, 2355-2365.	5.4	24
117	Enhancement of blood vessels in retinal imaging using the nonsubsampling contourlet transform. Multidimensional Systems and Signal Processing, 2012, 23, 423-436.	1.7	5
118	Retinal vessels segmentation using supervised classifiers decisions fusion. , 2012, , .		6
119	Detection of changes in color fundus images due to diabetic retinopathy. , 2012, , .		4
120	Measurement of Normal Optic Nerve Head Parameters. Survey of Ophthalmology, 2012, 57, 317-336.	1.7	19
121	Enhanced, near-infrared fundus reflectance for qualitative and quantitative analysis of subretinal lesions. Experimental Eye Research, 2012, 96, 171-177.	1.2	10
122	Fully automatic algorithm for the analysis of vessels in the angiographic image of the eye fundus. BioMedical Engineering OnLine, 2012, 11, 35.	1.3	26
123	Retinal Vascular Tree Reconstruction With Anatomical Realism. IEEE Transactions on Biomedical Engineering, 2012, 59, 3337-3347.	2.5	16
124	Retinal Vascular Fractal Dimension and Its Relationship With Cardiovascular and Ocular Risk Factors. American Journal of Ophthalmology, 2012, 154, 663-674.e1.	1.7	98
125	Retinal vasoreactivity as a marker for chronic ischemic white matter disease?. Journal of the Neurological Sciences, 2012, 322, 206-210.	0.3	15
127	Automatic location of Optic Disc boundary in retinal images. , 2012, , .		2
128	Restoration of retinal images using anisotropic diffusion like algorithms. , 2012, , .		3



#	ARTICLE	IF	CITATIONS
129	Retinal Image Quality Analysis for Automatic Diabetic Retinopathy Detection. , 2012, , .		26
130	Detection and Classification of Bifurcation and Branch Points on Retinal Vascular Network. , 2012, , .		16
131	A survey on hemorrhage detection in diabetic retinopathy retinal images. , 2012, , .		27
132	Fast Retinal Vessel Detection and Measurement Using Wavelets and Edge Location Refinement. PLoS ONE, 2012, 7, e32435.	1.1	272
133	Detection of Neovascularization in Diabetic Retinopathy. Journal of Digital Imaging, 2012, 25, 437-444.	1.6	52
134	Comparison of retinal vasodilator and constrictor responses in type 2 diabetes. Acta Ophthalmologica, 2012, 90, e434-41.	0.6	48
135	Data mining techniques for the screening of age-related macular degeneration. Knowledge-Based Systems, 2012, 29, 83-92.	4.0	36
136	Parabolic Modeling of the Major Temporal Arcade in Retinal Fundus Images. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1825-1838.	2.4	33
137	RERBEE: Robust Efficient Registration via Bifurcations and Elongated Elements Applied to Retinal Fluorescein Angiogram Sequences. IEEE Transactions on Medical Imaging, 2012, 31, 140-150.	5.4	21
138	Automated red lesion detection in diabetic retinopathy. , 2013, , .		8
139	Detection of retinal vessels in fundus images through transfer learning of tissue specific photon interaction statistical physics. , 2013, , .		7
141	Computer-aided diagnosis of diabetic retinopathy: A review. Computers in Biology and Medicine, 2013, 43, 2136-2155.	3.9	344
143	Computer-aided Diagnosis of Proliferative Diabetic Retinopathy via Modeling of the Major Temporal Arcade in Retinal Fundus Images. Journal of Digital Imaging, 2013, 26, 1124-1130.	1.6	16
144	Automatic detection of age-related macular degeneration pathologies in retinal fundus images. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 425-434.	0.9	16
145	Validating Retinal Fundus Image Analysis Algorithms: Issues and a Proposal. , 2013, 54, 3546.		142
146	Methods for the detection of blood vessels in retinal fundus images and reduction of false-positive pixels around the optic nerve head. , 2013, , .		5
147	Multifractal Geometry in Analysis and Processing of Digital Retinal Photographs for Early Diagnosis of Human Diabetic Macular Edema. Current Eye Research, 2013, 38, 781-792.	0.7	37
148	Optic disk localization using fast radial symmetry transform. , 2013, , .		4

#	ARTICLE	IF	CITATIONS
149	Stanford University Network for Diagnosis of Retinopathy of Prematurity (SUNDROP): Four-years of Screening with Telemedicine. <i>Current Eye Research</i> , 2013, 38, 283-291.	0.7	38
150	Trainable COSFIRE Filters for Keypoint Detection and Pattern Recognition. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013, 35, 490-503.	9.7	98
151	Retinal vessel tortuosity measures and their applications. <i>Experimental Eye Research</i> , 2013, 106, 40-46.	1.2	59
152	Automatic detection of vascular bifurcations in segmented retinal images using trainable COSFIRE filters. <i>Pattern Recognition Letters</i> , 2013, 34, 922-933.	2.6	76
153	Risk of Cardiovascular Diseases Is Increased Even with Mild Diabetic Retinopathy. <i>Ophthalmology</i> , 2013, 120, 574-582.	2.5	79
154	Retinal Vascular Geometry and Glaucoma: The Singapore Malay Eye Study. <i>Ophthalmology</i> , 2013, 120, 77-83.	2.5	41
155	Automated Analysis of Diabetic Retinopathy Images: Principles, Recent Developments, and Emerging Trends. <i>Current Diabetes Reports</i> , 2013, 13, 453-459.	1.7	28
156	Towards automatic detection of abnormal retinal capillaries in ultra-widefield-of-view retinal angiographic exams. , 2013, 2013, 7372-5.		1
157	Retinal Image Registration Using Geometrical Features. <i>Journal of Digital Imaging</i> , 2013, 26, 248-258.	1.6	27
158	Inertia-based vessel centerline extraction in retinal image. , 2013, , .		7
159	Investigating post-processing of scanning laser ophthalmoscope images for unsupervised retinal blood vessel detection. , 2013, , .		1
160	A Novel Method to Enhance and Optimize Retinal Vessels Image Based on Combining Bottom Cap and Optimization Transformation. <i>Applied Mechanics and Materials</i> , 0, 380-384, 3782-3786.	0.2	0
161	Robust Vessel Segmentation in Fundus Images. <i>International Journal of Biomedical Imaging</i> , 2013, 2013, 1-11.	3.0	376
162	Retinal blood vessel detection using wavelet-matched filter. <i>Optical Engineering</i> , 2013, 52, 037204.	0.5	7
163	Retinal Vascular Parameter Variations in Patients With Human Immunodeficiency Virus. , 2013, 54, 7962.		14
164	Computer assisted evaluation of retinal vessels tortuosity in Fabry disease. <i>Acta Ophthalmologica</i> , 2013, 91, e113-9.	0.6	26
165	Retinal vessel classification: Sorting arteries and veins. , 2013, 2013, 7396-9.		43
166	Detection of Optic Disc by Line Filter Operator Approach in Retinal Images. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 719-728.	0.5	1

#	ARTICLE	IF	CITATIONS
167	Towards a multi-site international public dataset for the validation of retinal image analysis software. , 2013, 2013, 7152-5.		1
168	Relationship Between Retinal Vascular Geometry With Retinal Nerve Fiber Layer and Ganglion Cell-Inner Plexiform Layer in Nonglaucomatous Eyes. , 2013, 54, 7309.		31
169	Application of Principal Component Analysis in Automatic Localization of Optic Disc and Fovea in Retinal Images. Journal of Medical Engineering, 2013, 2013, 1-12.	1.1	5
170	Racial Differences in Retinal Vessel Geometric Characteristics: A Multiethnic Study in Healthy Asians. , 2013, 54, 3650.		35
171	Structural Changes in the Retinal Microvasculature and Renal Function. , 2013, 54, 2970.		67
172	A Comprehensive Texture Segmentation Framework for Segmentation of Capillary Non-Perfusion Regions in Fundus Fluorescein Angiograms. PLoS ONE, 2014, 9, e93624.	1.1	35
173	Quantitative Spatial and Temporal Analysis of Fluorescein Angiography Dynamics in the Eye. PLoS ONE, 2014, 9, e111330.	1.1	17
174	A Review of Disease Grading and Remote Diagnosis for Sight Threatening Eye Condition: Age Related Macular Degeneration. Journal of Computer Science and Systems Biology, 2014, 7, .	0.0	5
175	Do Genetic Mutations and Genotypes Contribute to Onychomycosis?. Dermatology, 2014, 228, 207-210.	0.9	19
176	Fuzzy cellular learning automata for lesion detection in retina images. Journal of Intelligent and Fuzzy Systems, 2014, 27, 2297-2303.	0.8	5
177	Comparison of Pre-Processing Methods for Segmentation and Approximation of Optic Disc Boundary from Processed Digital Retinal Images. , 2014, , .		3
178	Age-Related Macular Degeneration: Clinical Findings, Histopathology and Imaging Techniques. Developments in Ophthalmology, 2014, 53, 1-32.	0.1	51
179	Cerebral malaria in children: using the retina to study the brain. Brain, 2014, 137, 2119-2142.	3.7	81
180	Blood vessel segmentation and width estimation in ultra-wide field scanning laser ophthalmoscopy. Biomedical Optics Express, 2014, 5, 4329.	1.5	43
181	Diagnosis of diabetic retinopathy by employing image processing technique to detect exudates in retinal images. IET Image Processing, 2014, 8, 601-609.	1.4	55
182	Automatic retinal vessel classification using a Least Square-Support Vector Machine in VAMPIRE. , 2014, 2014, 142-5.		24
183	Tracking the major temporal arcade in retinal fundus images. , 2014, , .		1
184	Fast Mesh-Based Medical Image Registration. Lecture Notes in Computer Science, 2014, , 1-10.	1.0	3

#	ARTICLE	IF	CITATIONS
185	Quality evaluation of digital fundus images through combined measures. Journal of Medical Imaging, 2014, 1, 014001.	0.8	21
186	Contrast measurement for no-reference retinal image quality assessment. , 2014, , .		3
187	Automated detection of optic disc and blood vessel in retinal image using morphological, edge detection and feature extraction technique. , 2014, , .		13
188	Landmark matching based retinal image alignment by enforcing sparsity in correspondence matrix. Medical Image Analysis, 2014, 18, 903-913.	7.0	32
189	A new combined method based on curvelet transform and morphological operators for automatic detection of foveal avascular zone. Signal, Image and Video Processing, 2014, 8, 205-222.	1.7	28
190	Modeling sets of unordered points using highly eccentric ellipses. Eurasip Journal on Advances in Signal Processing, 2014, 2014, .	1.0	3
191	An Automatic Graph-Based Approach for Artery/Vein Classification in Retinal Images. IEEE Transactions on Image Processing, 2014, 23, 1073-1083.	6.0	172
192	A Multi-Orientation Analysis Approach to Retinal Vessel Tracking. Journal of Mathematical Imaging and Vision, 2014, 49, 583-610.	0.8	95
193	Vessel segmentation in retinal images with a multiple kernel learning based method. , 2014, , .		2
194	Measurement of vessel width in retinal fundus images of preterm infants with plus disease. , 2014, , .		4
195	Update on retinal vessel structure measurement with spectral-domain optical coherence tomography. Microvascular Research, 2014, 95, 7-14.	1.1	25
196	Retinal imaging as a source of biomarkers for diagnosis, characterization and prognosis of chronic illness or long-term conditions. British Journal of Radiology, 2014, 87, 20130832.	1.0	98
197	Computer-aided diabetic retinopathy detection using trace transforms on digital fundus images. Medical and Biological Engineering and Computing, 2014, 52, 663-672.	1.6	45
198	Retinal Vessel Detection and Measurement for Computer-aided Medical Diagnosis. Journal of Digital Imaging, 2014, 27, 120-132.	1.6	14
199	8th International Conference on Practical Applications of Computational Biology & Bioinformatics (PACBB 2014). Advances in Intelligent Systems and Computing, 2014, , .	0.5	1
200	Experimental verifications of noise suppression in retinal recognition by using compression-based joint transform correlator. Optics Communications, 2014, 315, 188-192.	1.0	3
201	Progress on retinal image analysis for age related macular degeneration. Progress in Retinal and Eye Research, 2014, 38, 20-42.	7.3	132
202	Digital Image Processing for Ophthalmology: Detection and Modeling of Retinal Vascular Architecture. Synthesis Lectures on Biomedical Engineering, 2014, 9, 1-185.	0.1	2

#	ARTICLE	IF	CITATIONS
203	Retinal image quality assessment using generic image quality indicators. Information Fusion, 2014, 19, 73-90.	11.7	72
204	Automated diagnosis of age-related macular degeneration using machine learning techniques. International Journal of Computer Applications in Technology, 2014, 49, 157.	0.3	5
205	No-reference wavelet based Retinal Image Quality Assessment. , 2015, , 123-129.		9
206	Automated Detection of Vessel Abnormalities on Fluorescein Angiogram in Malarial Retinopathy. Scientific Reports, 2015, 5, 11154.	1.6	17
207	Beat Detection of Blood Vessel from SLO Eye Fundus Moving Image. Procedia Computer Science, 2015, 60, 422-429.	1.2	0
209	Accuracy Assessment of Intra- and Intervisit Fundus Image Registration for Diabetic Retinopathy Screening. Investigative Ophthalmology and Visual Science, 2015, 56, 1805-1812.	3.3	30
210	Associations of Maternal Retinal Vasculature with Subsequent Fetal Growth and Birth Size. PLoS ONE, 2015, 10, e0118250.	1.1	10
211	Suitability of UK Biobank Retinal Images for Automatic Analysis of Morphometric Properties of the Vasculature. PLoS ONE, 2015, 10, e0127914.	1.1	56
212	Novel Method for Automated Analysis of Retinal Images: Results in Subjects with Hypertensive Retinopathy and CADASIL. BioMed Research International, 2015, 2015, 1-10.	0.9	28
213	Automatic Extraction of Blood Vessels in the Retinal Vascular Tree Using Multiscale Medialness. International Journal of Biomedical Imaging, 2015, 2015, 1-16.	3.0	21
214	Automatic Segmentation of Optic Disc in Eye Fundus Images: A Survey. Electronic Letters on Computer Vision and Image Analysis, 2015, 14, .	0.5	7
215	Retinal Vascular Fractal Dimension, Childhood IQ, and Cognitive Ability in Old Age: The Lothian Birth Cohort Study 1936. PLoS ONE, 2015, 10, e0121119.	1.1	26
216	Evaluating pseudo 3D reconstruction of retinal images as a tool for retinopathy of prematurity screening. , 2015, , .		2
217	Deep neural network and random forest hybrid architecture for learning to detect retinal vessels in fundus images. , 2015, 2015, 3029-32.		44
218	Content Based retinal Image Retrieval scheme using Harmony Search Algorithm. , 2015, , .		0
219	Automated construction of arterial and venous trees in retinal images. Journal of Medical Imaging, 2015, 2, 044001.	0.8	35
220	Analyzing OCT images of age-related macular degeneration patients to identify spatial health correlations. , 2015, 2015, 8127-30.		3
221	Retinal vessel extraction using Lattice Neural Networks with dendritic processing. Computers in Biology and Medicine, 2015, 58, 20-30.	3.9	101

#	ARTICLE	IF	CITATIONS
223	Genetic variation in retinal vascular patterning predicts variation in pial collateral extent and stroke severity. <i>Angiogenesis</i> , 2015, 18, 97-114.	3.7	17
224	Automated Retinal Image Analysis for Diabetic Retinopathy in Telemedicine. <i>Current Diabetes Reports</i> , 2015, 15, 14.	1.7	57
225	Severity of coronary artery disease is independently associated with the frequency of early age-related macular degeneration. <i>British Journal of Ophthalmology</i> , 2015, 99, 365-370.	2.1	21
226	Experimental demonstrations of retinal recognition using compression-based joint transform correlator. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
227	Left-invariant evolutions of wavelet transforms on the similitude group. <i>Applied and Computational Harmonic Analysis</i> , 2015, 39, 110-137.	1.1	16
228	Noise-robust low-contrast retinal recognition using compression-based joint wavelet transform correlator. <i>Optics and Laser Technology</i> , 2015, 74, 97-102.	2.2	4
229	Computer-Aided Diagnostics and Pattern Recognition: Automated Glaucoma Detection. , 2015, , 93-104.		7
230	Automatic segmentation of blood vessels from retinal fundus images through image processing and data mining techniques. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2015, 40, 1715-1736.	0.8	5
231	Development of a screening tool for staging of diabetic retinopathy in fundus images. , 2015, , .		1
232	Optic disc detection and boundary extraction in retinal images. <i>Applied Optics</i> , 2015, 54, 3440.	2.1	36
233	Retinal Vessel Diameters and Their Relationship with Cardiovascular Risk and All-Cause Mortality in the Inter99 Eye Study: A 15-Year Follow-Up. <i>Journal of Ophthalmology</i> , 2016, 2016, 1-8.	0.6	29
234	Comprehensive Retinal Image Analysis for Aggressive Posterior Retinopathy of Prematurity. <i>PLoS ONE</i> , 2016, 11, e0163923.	1.1	18
235	Super-resolved retinal image mosaicing. , 2016, , .		5
236	Transforms and Operators for Directional Bioimage Analysis: A Survey. <i>Advances in Anatomy, Embryology and Cell Biology</i> , 2016, 219, 69-93.	1.0	322
237	Classification of image artefacts in optical coherence tomography angiography of the choroid in macular diseases. <i>Clinical and Experimental Ophthalmology</i> , 2016, 44, 388-399.	1.3	74
238	Modulation of retinal image vasculature analysis to extend utility and provide secondary value from optical coherence tomography imaging. <i>Journal of Medical Imaging</i> , 2016, 3, 020501.	0.8	5
239	A clustering approach for exudates detection in screening of diabetic retinopathy. , 2016, , .		8
240	Detection of retinal blood vessels and reduction of false microaneurysms for diagnosis of diabetic retinopathy. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
241	Morphology based approach for Microaneurysm detection from retinal image. , 2016, , .		3
242	A new method for detection of optical disc and macula for diabetic retinopathy. , 2016, , .		1
243	Analyzing Retinal Optical Coherence Tomography Images Using Differential Spatial Pyramid Matching. , 2016, , .		1
244	Retinal vessel regulation at high altitudes1. Clinical Hemorheology and Microcirculation, 2016, 63, 281-292.	0.9	17
245	Size-Invariant Fully Convolutional Neural Network for vessel segmentation of digital retinal images. , 2016, , .		10
246	Evaluation of feature sensitivity to training data inaccuracy in detection of retinal lesions. , 2016, , .		1
247	Inter-observer Reliability and Agreement Study on Early Diagnosis of Diabetic Retinopathy and Diabetic Macular Edema Risk. Lecture Notes in Computer Science, 2016, , 369-379.	1.0	4
248	Densitometry of Choroidal Vessels in Eyes With and Without Central Serous Chorioretinopathy by Wide-Field Indocyanine Green Angiography. American Journal of Ophthalmology, 2016, 166, 103-111.	1.7	39
249	Focus on Bio-Image Informatics. Advances in Anatomy, Embryology and Cell Biology, 2016, , .	1.0	13
250	Regional Image Features Model for Automatic Classification between Normal and Glaucoma in Fundus and Scanning Laser Ophthalmoscopy (SLO) Images. Journal of Medical Systems, 2016, 40, 132.	2.2	38
251	A review on automatic analysis techniques for color fundus photographs. Computational and Structural Biotechnology Journal, 2016, 14, 371-384.	1.9	47
252	Different methods used for extraction of blood vessels from retinal images. , 2016, , .		1
253	ImageJ in Computational Fractal-Based Neuroscience: Pattern Extraction and Translational Research. Springer Series in Computational Neuroscience, 2016, , 503-522.	0.3	2
254	Retinal Fundus Image Analysis for Diagnosis of Glaucoma: A Comprehensive Survey. IEEE Access, 2016, 4, 4327-4354.	2.6	71
255	Robust Retinal Vessel Segmentation via Locally Adaptive Derivative Frames in Orientation Scores. IEEE Transactions on Medical Imaging, 2016, 35, 2631-2644.	5.4	300
256	Retinal image quality assessment based on image clarity and content. Journal of Biomedical Optics, 2016, 21, 096007.	1.4	32
257	A new approach in human retina optic disc segmentation using Graph Cut. , 2016, , .		0
258	Artery/vein classification of retinal blood vessels using feature selection. , 2016, 2016, 1320-1323.		14

#	ARTICLE	IF	CITATIONS
259	Classification of vessels as arteries verses veins using hybrid features for diagnosis of hypertensive retinopathy. , 2016, , .		3
260	Automatic detection of neovascularization on optic disk region with feature extraction and support vector machine. , 2016, 2016, 1324-1327.		11
261	The relationship of systemic markers of renal function and vascular function with retinal blood vessel responses. Graefe's Archive for Clinical and Experimental Ophthalmology, 2016, 254, 2257-2265.	1.0	9
262	Gishti et al. Respond to "Hypertensive Pregnancy and Offspring Microcirculation", American Journal of Epidemiology, 2016, 184, 619-620.	1.6	0
263	An Acute Retinal Model for Evaluating Blood Retinal Barrier Breach and Potential Drugs for Treatment. Journal of Visualized Experiments, 2016, , .	0.2	1
264	Inhibition-augmented trainable COSFIRE filters for keypoint detection and object recognition. Machine Vision and Applications, 2016, 27, 1197-1211.	1.7	5
266	The Evolution of Teleophthalmology Programs in the United Kingdom. Journal of Diabetes Science and Technology, 2016, 10, 308-317.	1.3	67
267	A new approach to optic disc detection in human retinal images using the firefly algorithm. Medical and Biological Engineering and Computing, 2016, 54, 453-461.	1.6	45
268	Retinal blood vessel segmentation employing image processing and data mining techniques for computerized retinal image analysis. Biocybernetics and Biomedical Engineering, 2016, 36, 102-118.	3.3	107
269	Imaging retina to study dementia and stroke. Progress in Retinal and Eye Research, 2017, 57, 89-107.	7.3	195
270	Retinal biomarkers provide "insight" into cortical pharmacology and disease. , 2017, 175, 151-177.		34
271	Automatic parameters selection of Gabor filters with the imperialism competitive algorithm with application to retinal vessel segmentation. Biocybernetics and Biomedical Engineering, 2017, 37, 246-254.	3.3	36
272	Retinal vessel delineation using a brain-inspired wavelet transform and random forest. Pattern Recognition, 2017, 69, 107-123.	5.1	99
273	Lateral thinking " Interocular symmetry and asymmetry in neurovascular patterning, in health and disease. Progress in Retinal and Eye Research, 2017, 59, 131-157.	7.3	44
274	A review of feature-based retinal image analysis. Expert Review of Ophthalmology, 2017, 12, 207-220.	0.3	24
275	Retinal imaging analysis based on vessel detection. Microscopy Research and Technique, 2017, 80, 799-811.	1.2	64
276	Retinal vasculature in glaucoma: a review. BMJ Open Ophthalmology, 2017, 1, e000032.	0.8	102
277	Exudate detection for diabetic retinopathy with convolutional neural networks. , 2017, 2017, 1744-1747.		55



#	ARTICLE	IF	CITATIONS
278	Comparisons of microvascular and macrovascular changes in aldosteronism-related hypertension and essential hypertension. <i>Scientific Reports</i> , 2017, 7, 2666.	1.6	12
279	Using Retinal Imaging to Study Dementia. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	12
280	Automatic segmentation of retinal vasculature. , 2017, , .		8
281	Improving dense conditional random field for retinal vessel segmentation by discriminative feature learning and thin-vessel enhancement. <i>Computer Methods and Programs in Biomedicine</i> , 2017, 148, 13-25.	2.6	66
282	Retinal microvascular diameters. <i>Journal of Hypertension</i> , 2017, 35, 1573-1574.	0.3	2
283	Experimental demonstrations of noise-robustness of compression-based joint wavelet transform correlator in retinal recognition. <i>Optik</i> , 2017, 142, 168-173.	1.4	5
284	An efficient multistage segmentation method for accurate hard exudates and lesion detection in digital retinal images. <i>Journal of Intelligent and Fuzzy Systems</i> , 2017, 33, 1639-1649.	0.8	7
285	Retina disease classification based on colour fundus images using convolutional neural networks. , 2017, , .		7
286	Retinal Vascular Morphological Changes in Patients with Extremely Severe Obstructive Sleep Apnea Syndrome. <i>Chinese Medical Journal</i> , 2017, 130, 805-810.	0.9	13
287	Automated Brightness and Contrast Adjustment of Color Fundus Photographs for the Grading of Age-Related Macular Degeneration. <i>Translational Vision Science and Technology</i> , 2017, 6, 3.	1.1	22
288	Effect of Axial Eye Length on Retinal Vessel Parameters in 6 to 12-Year-Old Malay Girls. <i>PLoS ONE</i> , 2017, 12, e0170014.	1.1	15
289	CDR based glaucoma detection using fundus images: a review. <i>International Journal of Applied Pattern Recognition</i> , 2017, 4, 261.	0.3	9
290	Retinal Oximetry and Vessel Diameter Measurements With a Commercially Available Scanning Laser Ophthalmoscope in Diabetic Retinopathy. , 2017, 58, 5556.		32
291	Automatic Diabetic Retinopathy Detection Through Ensemble Classification Techniques Automated Diabetic Retionapthy Classification. , 2017, , .		10
292	Cognitive Dysfunction in Diabetes Mellitus. , 2017, , 421-443.		2
293	Biomarkers for Preclinical Alzheimerâ€™s Disease. <i>Neuromethods</i> , 2018, , .	0.2	5
294	Retinal Imaging in Early Alzheimerâ€™s Disease. <i>Neuromethods</i> , 2018, , 199-212.	0.2	5
295	Reconnection of Interrupted Curvilinear Structures via Cortically Inspired Completion for Ophthalmologic Images. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 1151-1165.	2.5	10

#	ARTICLE	IF	CITATIONS
296	A Self-Powered Brain-Linked Vision Electronic-Skin Based on Triboelectric-Photodetecting Pixel-Addressable Matrix for Visual Image Recognition and Behavior Intervention. <i>Advanced Functional Materials</i> , 2018, 28, 1800275.	7.8	76
297	Macula segmentation and fovea localization employing image processing and heuristic based clustering for automated retinal screening. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 160, 153-163.	2.6	26
298	Automated Quality Assessment of Colour Fundus Images for Diabetic Retinopathy Screening in Telemedicine. <i>Journal of Digital Imaging</i> , 2018, 31, 869-878.	1.6	61
299	Assessment of flow dynamics in retinal and choroidal microcirculation. <i>Survey of Ophthalmology</i> , 2018, 63, 646-664.	1.7	57
300	Template Matching via Densities on the Roto-Translation Group. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2018, 40, 452-466.	9.7	17
301	Machine Learning Based Automatic Neovascularization Detection on Optic Disc Region. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018, 22, 886-894.	3.9	41
302	Optic Disk Detection in Fundus Image Based on Structured Learning. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018, 22, 224-234.	3.9	45
303	A spectrum of retinal vasculature measures and coronary artery disease. <i>Atherosclerosis</i> , 2018, 268, 215-224.	0.4	52
304	Computer-aided diagnosis based on enhancement of degraded fundus photographs. <i>Acta Ophthalmologica</i> , 2018, 96, e320-e326.	0.6	11
305	Multiscale self-quotient filtering for an improved unsupervised retinal blood vessels characterisation. <i>Biomedical Engineering Letters</i> , 2018, 8, 59-68.	2.1	4
306	A Novel Optic Disc and Blood Vessel Detection Algorithm. , 2018, , .		1
307	Remote examination of exudates-impact of macular oedema. <i>Healthcare Technology Letters</i> , 2018, 5, 118-123.	1.9	7
308	Optic Disc Localization in Retinal Fundus Images using Faster R-CNN. , 2018, , .		8
309	Visually Lossless Compression of Retina Images. , 2018, , .		8
310	Abnormality Detection in Eye Fundus Retina. , 2018, , .		4
311	Multispectral Pattern Recognition Reveals a Diversity of Clinical Signs in Intermediate Age-Related Macular Degeneration. , 2018, 59, 1790.		7
312	Retinal Eye Disease Detection Using Deep Learning. , 2018, , .		13
313	VEA: Vessel Extraction Algorithm by Active Contour Model and a Novel Wavelet Analyzer for Diabetic Retinopathy Detection. <i>International Journal of Image and Graphics</i> , 2018, 18, 1850008.	1.2	15

#	ARTICLE	IF	CITATIONS
314	Localizing Optic Disc in Retinal Image Automatically with Entropy Based Algorithm. International Journal of Biomedical Imaging, 2018, 2018, 1-7.	3.0	14
315	A Review on the Extraction of Quantitative Retinal Microvascular Image Feature. Computational and Mathematical Methods in Medicine, 2018, 2018, 1-21.	0.7	32
316	Indian Diabetic Retinopathy Image Dataset (IDRiD): A Database for Diabetic Retinopathy Screening Research. Data, 2018, 3, 25.	1.2	430
317	Modelling of retinal vasculature based on genetically tuned parametric L-system. Royal Society Open Science, 2018, 5, 171639.	1.1	6
318	Combining ODR and Blood Vessel Tracking for Artery&#x2013;Vein Classification and Analysis in Color Fundus Images. Translational Vision Science and Technology, 2018, 7, 23.	1.1	19
319	Retinal vessel segmentation based on Fully Convolutional Neural Networks. Expert Systems With Applications, 2018, 112, 229-242.	4.4	217
320	MBO-SVM-based exudate classification in fundus retinal images of diabetic patients. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2019, 7, 195-206.	1.3	4
321	Retinal microvascular features and cognitive change in the Lothian&#x2013;Birth Cohort 1936. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2019, 11, 500-509.	1.2	8
322	Recent Development on Detection Methods for the Diagnosis of Diabetic Retinopathy. Symmetry, 2019, 11, 749.	1.1	70
324	Edge, Ridge, and Blob Detection with Symmetric Molecules. SIAM Journal on Imaging Sciences, 2019, 12, 1585-1626.	1.3	11
325	Retinal blood vessel segmentation from diabetic retinopathy images using tandem PCNN model and deep learning based SVM. Optik, 2019, 199, 163328.	1.4	57
326	Non-invasive in vivo hyperspectral imaging of the retina for potential biomarker use in Alzheimer&#x2013;s disease. Nature Communications, 2019, 10, 4227.	5.8	157
327	Retinal vascular tortuosity in schizophrenia and bipolar disorder. Schizophrenia Research, 2019, 212, 26-32.	1.1	31
328	A CNN-BASED RETINAL IMAGE QUALITY ASSESSMENT SYSTEM FOR TELEOPHTHALMOLOGY. Journal of Mechanics in Medicine and Biology, 2019, 19, 1950030.	0.3	9
329	Retinal Image Processing and Classification Using Convolutional Neural Networks. Lecture Notes in Computational Vision and Biomechanics, 2019, , 1271-1280.	0.5	4
330	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
331	Quality and content analysis of fundus images using deep learning. Computers in Biology and Medicine, 2019, 108, 317-331.	3.9	34
332	Hybrid Nature Inspired SMO-GBM Classifier for Exudate Classification on Fundus Retinal Images. Irbm, 2019, 40, 69-77.	3.7	13

#	ARTICLE	IF	CITATIONS
333	Cannabis use and human retina: The path for the study of brain synaptic transmission dysfunctions in cannabis users. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 106, 11-22.	2.9	13
334	Angular Accuracy of Steerable Feature Detectors. <i>SIAM Journal on Imaging Sciences</i> , 2019, 12, 344-371.	1.3	2
335	Automatic Retinal Vascular Network Detection using Multi-Thresholding Approach based on Otsu. , 2019, , .		1
336	Clinical motivation and the needs for RIA in healthcare. , 2019, , 5-17.		2
337	Retinal image preprocessing, enhancement, and registration. , 2019, , 59-77.		7
338	Image quality assessment. , 2019, , 135-155.		3
340	Ocular Fluid Dynamics. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2019, , .	0.4	9
341	Feature Based Classification of Retinal Blood Vessels Using Multifractal Technique. , 2019, , .		0
342	Computational Methods for Exudates Detection and Macular Edema Estimation in Retinal Images: A Survey. <i>Archives of Computational Methods in Engineering</i> , 2019, 26, 1193-1220.	6.0	14
343	Color fundus image registration techniques and applications for automated analysis of diabetic retinopathy progression: A review. <i>Biomedical Signal Processing and Control</i> , 2019, 47, 288-302.	3.5	37
344	Computer Aided Intervention and Diagnostics in Clinical and Medical Images. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2019, , .	0.5	6
345	Diabetic retinopathy techniques in retinal images: A review. <i>Artificial Intelligence in Medicine</i> , 2019, 97, 168-188.	3.8	73
346	Retina as a Biomarker of Stroke. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2019, , 219-226.	0.5	1
347	Gaussian field estimator with manifold regularization for retinal image registration. <i>Signal Processing</i> , 2019, 157, 225-235.	2.1	27
348	Multifractal and lacunarity analyses of microvascular morphology in eyes with diabetic retinopathy: A projection artifact resolved optical coherence tomography angiography study. <i>Microcirculation</i> , 2019, 26, e12519.	1.0	11
349	Retinal Vascular Geometry and the Prevalence of Atrial Fibrillation and Heart Failure in a Clinic-Based Sample. <i>Heart Lung and Circulation</i> , 2019, 28, 1631-1637.	0.2	7
350	A review of retinal blood vessels extraction techniques: challenges, taxonomy, and future trends. <i>Pattern Analysis and Applications</i> , 2019, 22, 767-802.	3.1	59
351	Surrogate-Assisted Retinal OCT Image Classification Based on Convolutional Neural Networks. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 253-263.	3.9	81

#	ARTICLE	IF	CITATIONS
352	IDRID: Diabetic Retinopathy – Segmentation and Grading Challenge. <i>Medical Image Analysis</i> , 2020, 59, 101561.	7.0	162
353	Automated diagnosis and quantitative analysis of plus disease in retinopathy of prematurity based on deep convolutional neural networks. <i>Acta Ophthalmologica</i> , 2020, 98, e339-e345.	0.6	41
354	Deep multi-instance heatmap regression for the detection of retinal vessel crossings and bifurcations in eye fundus images. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 186, 105201.	2.6	26
355	Application of deep learning for retinal image analysis: A review. <i>Computer Science Review</i> , 2020, 35, 100203.	10.2	117
356	Efficient Computer-Aided Techniques to Detect Glaucoma. , 2020, , .		0
357	&lt;p&gt;The Evolution of Diabetic Retinopathy Screening Programmes: A Chronology of Retinal Photography from 35 mm Slides to Artificial Intelligence&lt;/p&gt;. <i>Clinical Ophthalmology</i> , 2020, Volume 14, 2021-2035.	0.9	25
358	Orientation-independent Feature Matching (OIFM) for Multimodal Retinal Image Registration. <i>Biomedical Signal Processing and Control</i> , 2020, 60, 101957.	3.5	1
359	Retinal Vascular Network Segmentation Using Adaptive Thresholding Method Based on LSRV. , 2020, , .		1
360	Multi-Modal Registration Using a Block-Wise Coarse-to-Fine Approach. <i>IEEE Access</i> , 2020, 8, 78044-78053.	2.6	0
361	Astrocytic S100B, Blood-Brain Barrier and Neurodegenerative Diseases. , 2020, , .		6
362	Grey-Wolf-Based Wang’s Demons for Retinal Image Registration. <i>Entropy</i> , 2020, 22, 659.	1.1	5
363	A visual framework to create photorealistic retinal vessels for diagnosis purposes. <i>Journal of Biomedical Informatics</i> , 2020, 108, 103490.	2.5	14
364	The eye, the kidney, and cardiovascular disease: old concepts, better tools, and new horizons. <i>Kidney International</i> , 2020, 98, 323-342.	2.6	72
365	Classifiers fusion for improved vessel recognition with application in quantification of generalized arteriolar narrowing. <i>Journal of Innovative Optical Health Sciences</i> , 2020, 13, .	0.5	6
366	Retinal Vascular Signs and Cerebrovascular Diseases. <i>Journal of Neuro-Ophthalmology</i> , 2020, 40, 44-59.	0.4	48
367	Artificial Intelligence in Ophthalmology: A Meta-Analysis of Deep Learning Models for Retinal Vessels Segmentation. <i>Journal of Clinical Medicine</i> , 2020, 9, 1018.	1.0	37
368	Computational Models and Methods for Drug Target Prediction and Drug Repositioning. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2020, 23, 270-273.	0.6	2
369	Simultaneous segmentation of the optic disc and fovea in retinal images using evolutionary algorithms. <i>Neural Computing and Applications</i> , 2021, 33, 1903-1921.	3.2	4

#	ARTICLE	IF	CITATIONS
370	Small sample color fundus image quality assessment based on gcforest. Multimedia Tools and Applications, 2021, 80, 17441-17459.	2.6	7
371	A review of machine learning methods for retinal blood vessel segmentation and artery/vein classification. Medical Image Analysis, 2021, 68, 101905.	7.0	86
372	Retinal Vascular Fractal Dimensions and Their Association with Macrovascular Cardiac Disease. Ophthalmic Research, 2021, 64, 561-566.	1.0	6
373	An O-Shape Neural Network With Attention Modules to Detect Junctions in Biomedical Images Without Segmentation. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 774-785.	3.9	7
375	Diastolic left ventricular function in relation to the retinal microvascular fractal dimension in a Flemish population. Hypertension Research, 2021, 44, 446-453.	1.5	0
376	Fusing dual-tree quaternion wavelet transform and local mesh based features for grading of diabetic retinopathy using extreme learning machine classifier. International Journal of Imaging Systems and Technology, 2021, 31, 1625-1637.	2.7	5
377	Retinal arteriolar calibre and venular fractal dimension predict progression of proliferative diabetic retinopathy 6 months after panretinal photocoagulation: a prospective, clinical interventional study. BMJ Open Ophthalmology, 2021, 6, e000661.	0.8	1
378	Diameter Estimation of Fallopian Tubes Using Visual Sensing. Biosensors, 2021, 11, 100.	2.3	0
379	Assessing Changes in Diabetic Retinopathy Caused by Diabetes Mellitus and Glaucoma Using Support Vector Machines in Combination with Differential Evolution Algorithm. Applied Sciences (Switzerland), 2021, 11, 3944.	1.3	12
380	A Comparative analysis of stroke diagnosis from retinal images using hand-crafted features and CNN. Journal of Intelligent and Fuzzy Systems, 2021, 41, 5327-5335.	0.8	2
381	Retinal Vasculature Fractal and Stroke Mortality. Stroke, 2021, 52, 1276-1282.	1.0	17
382	Comparison of Two Spectral-domain Optical Coherence Tomography Scan Modes for Measuring Retinal Vessel Diameter. Current Eye Research, 2021, 46, 1-6.	0.7	0
383	Spontaneous functional changes in specific cerebral regions in patients with hypertensive retinopathy: a resting-state functional magnetic resonance imaging study. Aging, 2021, 13, 13166-13178.	1.4	0
384	Smartphone fundus photography: a narrative review. International Journal of Retina and Vitreous, 2021, 7, 44.	0.9	30
385	Diabetic Retinopathy Diagnosis Through Computer-Aided Fundus Image Analysis: A Review. Archives of Computational Methods in Engineering, 2022, 29, 1673-1711.	6.0	6
386	Deep-Learning-Based Pre-Diagnosis Assessment Module for Retinal Photographs: A Multicenter Study. Translational Vision Science and Technology, 2021, 10, 16.	1.1	11
387	Retinal image quality assessment using transfer learning: Spatial images vs. wavelet detail subbands. Ain Shams Engineering Journal, 2021, 12, 2799-2807.	3.5	9
388	Simulation of Diabetic Retinopathy Neovascularization in Color Digital Fundus Images. Lecture Notes in Computer Science, 2006, , 421-433.	1.0	3

#	ARTICLE	IF	CITATIONS
389	A Neurofuzzy Network for Supporting Detection of Diabetic Symptoms. Lecture Notes in Electrical Engineering, 2009, , 45-52.	0.3	1
390	Retinal Image Classification for the Screening of Age-Related Macular Degeneration. , 2011, , 325-338.		15
391	Evaluation of Unconditioned Deep Generative Synthesis of Retinal Images. Lecture Notes in Computer Science, 2020, , 262-273.	1.0	6
392	Classification and Detection of Diabetic Retinopathy. Studies in Computational Intelligence, 2013, , 135-145.	0.7	4
393	Analysis of Human Retinal Vasculature for Content Based Image Retrieval Applications. Lecture Notes in Computer Science, 2013, , 606-616.	1.0	1
395	Diabetic Macular Edema: Current Treatments. , 2007, , 131-146.		3
396	Neural Networks for Exudate Detection in Retinal Images. , 2007, , 298-306.		4
397	An Investigation into Neural Networks for the Detection of Exudates in Retinal Images. Advances in Soft Computing, 2009, , 169-177.	0.4	5
398	Ranking of color space components for detection of blood vessels in eye fundus images. IFMBE Proceedings, 2009, , 464-467.	0.2	7
399	Detection of the Optic Disc in Images of the Retina Using Gabor Filters and Phase Portrait Analysis. IFMBE Proceedings, 2009, , 468-471.	0.2	4
400	Retinal Vessel Extraction by a Combined Neural Networkâ€™Wavelet Enhancement Method. Lecture Notes in Computer Science, 2009, , 1106-1116.	1.0	11
401	Detection of Retinal Vascular Bifurcations by Trainable V4-Like Filters. Lecture Notes in Computer Science, 2011, , 451-459.	1.0	19
402	Automated Image Analysis and the Application of Diagnostic Algorithms in an Ocular Telehealth Network. , 2012, , 43-57.		1
403	Content Based Human Retinal Image Retrieval Using Vascular Feature Extraction. Lecture Notes in Computer Science, 2012, , 468-476.	1.0	2
404	Automatic Detection of Optic Disc from Retinal Fundus Images Using Dynamic Programming. Lecture Notes in Computer Science, 2012, , 416-423.	1.0	4
405	Blood Vessel Segmentation in Retinal Images Using Lattice Neural Networks. Lecture Notes in Computer Science, 2013, , 532-544.	1.0	9
406	Absolute retinal blood flowmeter using a laser Doppler velocimeter combined with adaptive optics. Journal of Biomedical Optics, 2020, 25, .	1.4	4
407	Tracking and diameter estimation of retinal vessels using Gaussian process and Radon transform. Journal of Medical Imaging, 2017, 4, 1.	0.8	14



#	ARTICLE	IF	CITATIONS
408	Blood vessel segmentation in modern wide-field retinal images in the presence of additive Gaussian noise. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	0.8	6
409	A Novel Retinal Blood Vessel Segmentation Algorithm using Fuzzy segmentation. <i>International Journal of Electrical and Computer Engineering</i> , 2014, 4, .	0.5	14
410	Detecting Retinal Pathology Automatically with Special Emphasis on Diabetic Retinopathy. , 2009, , .		4
411	Segmentation of the Vascular Network of the Retina. , 2014, , 101-126.		7
412	Automated Multi-Lesion Detection for Referable Diabetic Retinopathy in Indigenous Health Care. <i>PLoS ONE</i> , 2015, 10, e0127664.	1.1	7
413	Retinal Image Enhancement Using Robust Inverse Diffusion Equation and Self-Similarity Filtering. <i>PLoS ONE</i> , 2016, 11, e0158480.	1.1	3
414	ALTAIR: Supervised Methodology to Obtain Retinal Vessels Caliber. <i>Advances in Distributed Computing and Artificial Intelligence Journal</i> , 2014, 3, 48-57.	1.1	7
415	Controlled differential evolution based detection of neovascularization on optic disc using support vector machine. <i>Biomedizinische Technik</i> , 2021, 66, 21-30.	0.9	2
416	Detection of retinal capillary nonperfusion in fundus fluorescein angiogram of diabetic retinopathy. <i>BiolImpacts</i> , 2015, 5, 183-190.	0.7	31
417	Development of Algorithm for Dual Stage Classification to Estimate Severity Level of Diabetic Retinopathy in Retinal Images using Soft Computing Techniques. <i>International Journal on Electrical Engineering and Informatics</i> , 2014, 6, 717-739.	0.3	14
418	Retinal Vascular Features for Cardio Vascular Disease Prediction: Review. <i>Recent Patents on Computer Science</i> , 2010, 3, 164-175.	0.5	3
419	Wavelet Filter techniques for segmenting retinal blood vessels. <i>International Journal of Advanced and Applied Sciences</i> , 2017, 4, 156-160.	0.2	1
420	Detecting Diabetic Retinopathy from Retinal Images Using CUDA Deep Neural Network. <i>International Journal of Intelligent Engineering and Systems</i> , 2017, 10, 284-292.	0.8	2
421	State-of-the-art in retinal optical coherence tomography image analysis. <i>Quantitative Imaging in Medicine and Surgery</i> , 2015, 5, 603-17.	1.1	33
422	Evaluation of regional bulbar redness using an image-based objective method. <i>International Journal of Ophthalmology</i> , 2014, 7, 71-6.	0.5	10
423	Characterisation of human non-proliferative diabetic retinopathy using the fractal analysis. <i>International Journal of Ophthalmology</i> , 2015, 8, 770-6.	0.5	34
424	Characterization of human retinal vessel arborisation in normal and amblyopic eyes using multifractal analysis. <i>International Journal of Ophthalmology</i> , 2015, 8, 996-1002.	0.5	9
425	A comparative study on preprocessing techniques in diabetic retinopathy retinal images: Illumination correction and contrast enhancement. <i>Journal of Medical Signals and Sensors</i> , 2015, 5, 40.	0.5	41



#	ARTICLE	IF	CITATIONS
426	Identification of Diabetic Retinal Exudates in Digital Color Images Using Support Vector Machine. Journal of Intelligent Learning Systems and Applications, 2013, 05, 135-142.	0.4	8
427	Performance Evaluation of Distortion Measures for Retinal Images. International Journal of Computer Applications, 2011, 17, 17-23.	0.2	8
428	Automatic Detection of Diabetic Retinopathy in Non-dilated RGB Retinal Fundus Images. International Journal of Computer Applications, 2012, 47, 26-32.	0.2	26
429	Retinal Vessel Segmentation using Deep Neural Networks. , 2015, , .		90
430	Optimal Hyper Analytic Wavelet Transform for Glaucoma Detection in Fundal Retinal Images. Journal of Electrical Engineering and Technology, 2015, 10, 1899-1909.	1.2	13
431	A Novel Approach for Diagnosis of Glaucoma through Optic Nerve Head (ONH) Analysis using Fractal Dimension Technique. International Journal of Modern Education and Computer Science, 2016, 8, 55-61.	2.4	4
433	Fundus image segmentation via hierarchical feature learning. Computers in Biology and Medicine, 2021, 138, 104928.	3.9	13
434	Iteracinis optimizavimu pagrĀsto akies dugno kraujagysliĀ <sup>3</sup> trasavimo metodo variantas. Informacijos Mokslai, 0, 50, 347-351.	0.0	0
436	Automatic Extraction of Blood Vessels, Bifurcations and End Points in the Retinal Vascular Tree. IFMBE Proceedings, 2009, , 22-26.	0.2	1
438	Finding a Role for Computer-Aided Early Diagnosis of Diabetic Retinopathy. , 2009, , .		0
439	Retinal Vascular Changes as Biomarkers of Systemic Cardiovascular Diseases. , 2009, , .		1
440	ARIAS: Automated Retinal Image Analysis System. Advances in Intelligent and Soft Computing, 2011, , 67-76.	0.2	3
441	Detection of Retinal Vascular Bifurcations by Rotation- and Scale-Invariant COSFIRE Filters. Lecture Notes in Computer Science, 2012, , 363-371.	1.0	0
442	Altair: Automatic Image Analyzer to Assess Retinal Vessel Caliber. Advances in Intelligent Systems and Computing, 2013, , 429-438.	0.5	1
443	A Comparative Analysis of Retinal Blood Vessels Approaches. International Journal of Computer Applications, 2013, 74, 39-44.	0.2	7
444	Platform Image Processing Applied to the Study of Retinal Vessels. Advances in Intelligent Systems and Computing, 2014, , 21-30.	0.5	1
445	Unsupervised Segmentation of Blood Vessels from Colour Retinal Fundus Images. Lecture Notes in Computer Science, 2014, , 194-203.	1.0	0
446	Automated Retinal Blood Vessel Segmentation Using Fuzzy Mathematical Morphology and Morphological Reconstruction. Communications in Computer and Information Science, 2014, , 131-140.	0.4	1

#	ARTICLE	IF	CITATIONS
447	The Singapore Eye Vessel Assessment System. , 2014, , 159-176.		4
448	FRACTALS FOR COMPLEXITY ANALYSIS OF DIABETIC RETINOPATHY IN RETINAL VASCULATURE IMAGES. International Journal of Research in Engineering and Technology, 2014, 03, 680-685.	0.1	3
449	Pre-Processing Steps for Segmentation of Retinal Blood Vessels. International Journal of Computer Applications, 2014, 94, 34-37.	0.2	2
450	Detection, Modeling, and Analysis of the Major Temporal Arcade in Fundus Images of the Retina. , 2014, , 21-52.		0
451	Two Novel Retinal Blood Vessel Segmentation Algorithms. International Journal of Electrical and Computer Engineering, 2014, 4, .	0.5	6
452	Automatic Detection of Retinal Structures Based on Mathematical Morphology. , 2014, , 211-232.		0
453	Privacy in Biometric Systems. Computer Communications and Networks, 2015, , 235-262.	0.8	0
454	DRSTI: A Workbench for Querying Retinal Image Data of Age-Related Macular Degeneration Patients. Lecture Notes in Computer Science, 2016, , 340-349.	1.0	0
455	A New EYENET Model for Diagnosis of Age-Related Macular Degeneration. Advances in Computational Intelligence and Robotics Book Series, 2016, , 422-440.	0.4	0
456	An Automatic Approach to Segment Retinal Blood Vessels and Its Separation into Arteries/Veins. Advances in Intelligent Systems and Computing, 2017, , 191-199.	0.5	2
457	Analysis of Data for Diabetics Patient. European Scientific Journal, 2017, 13, 216.	0.0	0
458	A New EYENET Model for Diagnosis of Age-Related Macular Degeneration. , 2018, , 153-171.		0
459	Automated classification and quantitative analysis of arterial and venous vessels in fundus images. , 2018, 10474, .		0
460	Patch-Based Generative Adversarial Network Towards Retinal Vessel Segmentation. Communications in Computer and Information Science, 2019, , 49-56.	0.4	3
461	Image Analysis for Ophthalmology: Segmentation and Quantification of Retinal Vascular Systems. Modeling and Simulation in Science, Engineering and Technology, 2019, , 543-580.	0.4	4
462	Ripplet-Transform-based Cycle Spinning Denoising and Fuzzy-CLA Segmentation of Retinal Images for Accurate Hard Exudates and Lesion Detection. The Open Medical Imaging Journal, 2019, 11, 8-17.	0.8	0
463	Blood Vessel Extraction and Optic Disk Localization for Diabetic Retinopathy. , 2020, , .		2
465	Computer-Based Detection of Glaucoma Using Fundus Image Processing. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
466	Retinal Image Quality Assessment via Specific Structures Segmentation. Lecture Notes in Computer Science, 2020, , 53-61.	1.0	2
467	Quantitative Methods in Ocular Fundus Imaging: Analysis of Retinal Microvasculature. Applied and Numerical Harmonic Analysis, 2020, , 157-174.	0.1	0
468	E-Health Applications in Ophthalmic Diseases. , 0, , 1088-1115.		0
469	Remodeling mechanisms determine size distributions in developing retinal vasculature. PLoS ONE, 2020, 15, e0235373.	1.1	2
472	Use of telemedicine to assist ophthalmologists in developing countries for the diagnosis and management of four categories of ophthalmic pathology. Clinical Ophthalmology, 2007, 1, 489-95.	0.9	19
473	A comparative study on preprocessing techniques in diabetic retinopathy retinal images: illumination correction and contrast enhancement. Journal of Medical Signals and Sensors, 2015, 5, 40-8.	0.5	13
474	Research on Fundus Image Mosaic Method Based on Genetic Algorithm. Advances in Multimedia, 2021, 2021, 1-7.	0.2	0
477	Fast CNN trained model to detect the eye disease using coloured fundus image. AIP Conference Proceedings, 2022, , .	0.3	0
478	Human retinal optic disc detection with grasshopper optimization algorithm. Multimedia Tools and Applications, 2022, 81, 24937-24955.	2.6	7
479	Detection and Mosaicing Techniques for Low-Quality Retinal Videos. Sensors, 2022, 22, 2059.	2.1	0
480	Weak label based Bayesian U-Net for optic disc segmentation in fundus images. Artificial Intelligence in Medicine, 2022, 126, 102261.	3.8	27
481	A Two-Stage GAN for High-Resolution Retinal Image Generation and Segmentation. Electronics (Switzerland), 2022, 11, 60.	1.8	17
483	A lightweight deep learning model for automatic segmentation and analysis of ophthalmic images. Scientific Reports, 2022, 12, .	1.6	6
484	EfficientNet embedded with spatial attention for recognition of multi-label fundus disease from color fundus photographs. Biomedical Signal Processing and Control, 2022, 77, 103768.	3.5	6
485	A Convolutional Neural Network Approach for Diabetic Retinopathy Classification. , 2022, , .		46
486	Status and Trends of the Association Between Diabetic Nephropathy and Diabetic Retinopathy From 2000 to 2021: Bibliometric and Visual Analysis. Frontiers in Pharmacology, 0, 13, .	1.6	7
487	A Deep Learning Framework for Earlier Prediction of Diabetic Retinopathy from Fundus Photographs. BioMed Research International, 2022, 2022, 1-15.	0.9	14
488	An effective deep learning model for grading abnormalities in retinal fundus images using variational autoencoders. International Journal of Imaging Systems and Technology, 2023, 33, 92-107.	2.7	3

#	ARTICLE	IF	CITATIONS
489	Automatic Detection of Microaneurysms in OCT Images Using Bag of Features. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-10.	0.7	2
490	An Overview of Retinal Image Classification-Techniques and Challenges. , 2021, , .		1
491	Retinal Image Based System to Detect the Drug Abuse. , 2022, , .		0
492	Association of Retinal Age Gap With Arterial Stiffness and Incident Cardiovascular Disease. Stroke, 2022, 53, 3320-3328.	1.0	19
493	Changed Detection Based on Patch Robust Principal Component Analysis. Applied Sciences (Switzerland), 2022, 12, 7713.	1.3	0
494	IterNet++: An improved model for retinal image segmentation by curvelet enhancing, guided filtering, offline hardâ€sample mining, and testâ€time augmenting. IET Image Processing, 2022, 16, 3617-3633.	1.4	4
495	Fractal analysis of retinal vasculature in relation with retinal diseasesâ€™â€™an machine learning approach. Nonlinear Engineering, 2022, 11, 411-419.	1.4	0
496	Retinal vascular measures from diabetes retinal screening photographs and risk of incident dementia in type 2 diabetes: A GoDARTS study. Frontiers in Digital Health, 0, 4, .	1.5	0
497	Relationship of proliferative diabetic retinopathy and severe stages of chronic renal failure. Rossiiskii Meditsinskii Zhurnal: Organ Ministerstva Zdravookhraneniia RSFSR, 2022, 28, 215-221.	0.1	0
498	Multi-stage Synthetic Image Generation for the Semantic Segmentation of Medical Images. Intelligent Systems Reference Library, 2023, , 79-104.	1.0	0
499	Screening of idiopathic epiretinal membrane using fundus images combined with blood oxygen saturation and vascular morphological features. International Ophthalmology, 2023, 43, 1215-1228.	0.6	3
500	No reference image quality assessment of retinal image for diabetic retinopathy detection based on feature extraction. AIP Conference Proceedings, 2022, , .	0.3	0
501	Retinal Image Enhancement for Detection of Medical Complicationsâ€™A Summary. Lecture Notes in Electrical Engineering, 2023, , 667-694.	0.3	0
502	Recent trends and advances in fundus image analysis: A review. Computers in Biology and Medicine, 2022, 151, 106277.	3.9	24
503	An Optimized Hybrid approach to Detect Cataract. , 2022, , .		2
504	A Computationally Efficient Red-Lesion Extraction Method for Retinal Fundus Images. IEEE Transactions on Instrumentation and Measurement, 2023, 72, 1-13.	2.4	4
505	MSLF-Net: A Multi-Scale and Multi-Level Feature Fusion Net for Diabetic Retinopathy Segmentation. Diagnostics, 2022, 12, 2918.	1.3	3
506	Using Artificial Intelligence to Analyse the Retinal Vascular Network: The Future of Cardiovascular Risk Assessment Based on Oculomics? A Narrative Review. Ophthalmology and Therapy, 2023, 12, 657-674.	1.0	7

#	ARTICLE	IF	CITATIONS
507	Directionality quantification of in vitro grown dorsal root ganglion neurites using Fast Fourier Transform. <i>Journal of Neuroscience Methods</i> , 2023, 386, 109796.	1.3	0
508	Comparison, classification, and analysis of retinal blood vessels using image processing and data mining algorithms: A review article. , 2022, , .		0
509	Image Analysis and Processing for Generating Camouflages from Digital Earth Photographs. <i>Applied Sciences (Switzerland)</i> , 2023, 13, 403.	1.3	0
510	Computer-assisted evaluation of retinal vessel tortuosity in moderate-to-late preterm children. <i>European Journal of Ophthalmology</i> , 0, , 112067212311572.	0.7	0
511	Automatic vessel crossing and bifurcation detection based on multi-attention network vessel segmentation and directed graph search. <i>Computers in Biology and Medicine</i> , 2023, 155, 106647.	3.9	3
512	Detection and diagnosis of diseases by feature extraction and analysis on fundus images using deep learning techniques. , 2023, , 211-227.		1
518	Deep Learning-Based Pipeline for the Detection of Multiple Ocular Diseases. <i>Lecture Notes in Electrical Engineering</i> , 2023, , 819-830.	0.3	0
520	Pre-Trained Deep Learning-Based Approaches for Eye Disease Detection. , 2023, , .		0
521	Sparse auto-encoder based micro-aneurysm detection. <i>AIP Conference Proceedings</i> , 2023, , .	0.3	0
526	Cup-Disk Ratio Segmentation Joint with Key Retinal Vascular Information Under Diagnostic and Screening Scenarios. <i>Lecture Notes in Computer Science</i> , 2024, , 313-326.	1.0	0
528	Predicting systemic diseases in fundus images: systematic review of setting, reporting, bias, and models' clinical availability in deep learning studies. <i>Eye</i> , 0, , .	1.1	0
529	Bzier Curves Meet Deep Learning: A Novel Pretraining Method for Improved and Generalized Retinal Vessel Segmentation. , 2023, , .		0
530	An Integrated Deep Learning Approach for Computer-Aided Diagnosis of Diverse Diabetic Retinopathy Grading. , 2024, , 88-103.		0
532	Automated Segmentation of Macula in Retinal Images Using Deep Learning Methodology. <i>Lecture Notes in Electrical Engineering</i> , 2024, , 201-213.	0.3	0
534	Improving Diabetes Management with Support Vector Machine based Fundus Image Analysis. , 2023, , .		0
535	A state of art review on image analysis techniques, datasets and applications. <i>AIP Conference Proceedings</i> , 2024, , .	0.3	0
536	ImageJ in Computational Fractal-Based Neuroscience: Pattern Extraction and Translational Research. <i>Advances in Neurobiology</i> , 2024, , 795-814.	1.3	0