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List of Publications by Year in descending order

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127
papers

4,033
citations

172207

29
h-index

143772

57
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134
all docs

134
docs citations

134
times ranked

4058
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of Major Adverse Cardiovascular Events From Retinal, Clinical, and Genomic Data in Individuals With Type 2 Diabetes: A Population Cohort Study. <i>Diabetes Care</i> , 2022, 45, 710-716.	4.3	11
2	Comparing Measurements of Vascular Diameter Using Adaptive Optics Imaging and Conventional Fundus Imaging. <i>Diagnostics</i> , 2022, 12, 705.	1.3	7
3	Accuracy of Automated Computer-Aided Diagnosis for Stroke Imaging: A Critical Evaluation of Current Evidence. <i>Stroke</i> , 2022, 53, 2393-2403.	1.0	22
4	A novel algorithm for cardiovascular screening using conjunctival microcirculatory parameters and blood biomarkers. <i>Scientific Reports</i> , 2022, 12, 6545.	1.6	6
5	Retinal asymmetry in multiple sclerosis. <i>Brain</i> , 2021, 144, 224-235.	3.7	20
6	A review of machine learning methods for retinal blood vessel segmentation and artery/vein classification. <i>Medical Image Analysis</i> , 2021, 68, 101905.	7.0	86
7	Investigation of associations between retinal microvascular parameters and albuminuria in UK Biobank: a cross-sectional case-control study. <i>BMC Nephrology</i> , 2021, 22, 72.	0.8	7
8	Changes in retinal vascular diameters in senior and geriatric cats in association with variation in systemic blood pressure. <i>Journal of Feline Medicine and Surgery</i> , 2021, 23, 1129-1139.	0.6	1
9	Assessment of the conjunctival microcirculation for patients presenting with acute myocardial infarction compared to healthy controls. <i>Scientific Reports</i> , 2021, 11, 7660.	1.6	14
10	On the quantitative effects of compression of retinal fundus images on morphometric vascular measurements in VAMPIRE. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 202, 105969.	2.6	7
11	Retinal imaging in Alzheimer's disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021, 92, 983-994.	0.9	46
12	Using machine learning approaches for multi-omics data analysis: A review. <i>Biotechnology Advances</i> , 2021, 49, 107739.	6.0	277
13	On Clinical Agreement on the Visibility and Extent of Anatomical Layers in Digital Gonio Photographs. <i>Translational Vision Science and Technology</i> , 2021, 10, 1.	1.1	6
14	Are Cardiovascular Risk Scores from Genome and Retinal Image Complementary? A Deep Learning Investigation in a Diabetic Cohort. <i>Lecture Notes in Computer Science</i> , 2021, , 109-118.	1.0	1
15	Robust Selective Classification of Skin Lesions with Asymmetric Costs. <i>Lecture Notes in Computer Science</i> , 2021, , 112-121.	1.0	1
16	2D alpha-shapes to quantify retinal microvasculature morphology and their application to proliferative diabetic retinopathy characterisation in fundus photographs. <i>Scientific Reports</i> , 2021, 11, 22814.	1.6	2
17	Semantic segmentation of gonio-photographs via adaptive ROI localisation and uncertainty estimation. <i>BMJ Open Ophthalmology</i> , 2021, 6, e000898.	0.8	4
18	Quantitative measurements of enlarged perivascular spaces in the brain are associated with retinal microvascular parameters in older community-dwelling subjects. <i>Cerebral Circulation - Cognition and Behavior</i> , 2020, 1, 100002.	0.4	6

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19	Association between hypertension and retinal vascular features in ultra-widefield fundus imaging. <i>Open Heart</i> , 2020, 7, e001124.	0.9	10
20	Retinal Biomarkers Discovery for Cerebral Small Vessel Disease in an Older Population. <i>Communications in Computer and Information Science</i> , 2020, , 400-409.	0.4	2
21	A Deep Learning Approach for Semantic Segmentation of Gonioscopic Images to Support Glaucoma Categorization. <i>Communications in Computer and Information Science</i> , 2020, , 373-386.	0.4	3
22	Retinal microvascular features and cognitive change in the Lothian Birth Cohort 1936. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2019, 11, 500-509.	1.2	8
23	Quantitative assessment of the conjunctival microcirculation using a smartphone and slit-lamp biomicroscope. <i>Microvascular Research</i> , 2019, 126, 103907.	1.1	16
24	Novel Genetic Locus Influencing Retinal Venular Tortuosity Is Also Associated With Risk of Coronary Artery Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 2542-2552.	1.1	23
25	Investigating the Relationship Between Type 2 Diabetes and Dementia Using Electronic Medical Records in the GoDARTS Bioresource. <i>Diabetes Care</i> , 2019, 42, 1973-1980.	4.3	14
26	Retinal microvasculature and cerebral small vessel disease in the Lothian Birth Cohort 1936 and Mild Stroke Study. <i>Scientific Reports</i> , 2019, 9, 6320.	1.6	49
27	Retinal Vessel Phenotype in Patients with Nonarteritic Anterior Ischemic Optic Neuropathy. <i>American Journal of Ophthalmology</i> , 2019, 208, 178-184.	1.7	10
28	A multimodal approach to cardiovascular risk stratification in patients with type 2 diabetes incorporating retinal, genomic and clinical features. <i>Scientific Reports</i> , 2019, 9, 3591.	1.6	21
29	Automated detection of age-related macular degeneration in color fundus photography: a systematic review. <i>Survey of Ophthalmology</i> , 2019, 64, 498-511.	1.7	48
30	Using orthogonal locality preserving projections to find dominant features for classifying retinal blood vessels. <i>Multimedia Tools and Applications</i> , 2019, 78, 12783-12803.	2.6	8
31	Retinal microvascular parameters are not associated with reduced renal function in a study of individuals with type 2 diabetes. <i>Scientific Reports</i> , 2018, 8, 3931.	1.6	21
32	Structure Prediction for Gland Segmentation With Hand-Crafted and Deep Convolutional Features. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 210-221.	5.4	36
33	A Graph Cut Approach to Artery/Vein Classification in Ultra-Widefield Scanning Laser Ophthalmoscopy. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 516-526.	5.4	24
34	Evaluation of coronary artery disease as a risk factor for reticular pseudodrusen. <i>British Journal of Ophthalmology</i> , 2018, 102, 483-489.	2.1	13
35	Towards Standardization of Quantitative Retinal Vascular Parameters: Comparison of SIVA and VAMPIRE Measurements in the Lothian Birth Cohort 1936. <i>Translational Vision Science and Technology</i> , 2018, 7, 12.	1.1	55
36	Towards Standardization of Retinal Vascular Measurements: On the Effect of Image Centering. <i>Lecture Notes in Computer Science</i> , 2018, , 294-302.	1.0	6

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37	Machine learning of neuroimaging for assisted diagnosis of cognitive impairment and dementia: A systematic review. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2018, 10, 519-535.	1.2	162
38	Subcategory Classifiers for Multiple-Instance Learning and Its Application to Retinal Nerve Fiber Layer Visibility Classification. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 1140-1150.	5.4	15
39	Retinal microvascular network geometry and cognitive abilities in community-dwelling older people: The Lothian Birth Cohort 1936 study. <i>British Journal of Ophthalmology</i> , 2017, 101, 993-998.	2.1	25
40	Lateral thinking – Interocular symmetry and asymmetry in neurovascular patterning, in health and disease. <i>Progress in Retinal and Eye Research</i> , 2017, 59, 131-157.	7.3	44
41	The application of retinal fundus camera imaging in dementia: A systematic review. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2017, 6, 91-107.	1.2	83
42	Retinal Biomarker Discovery for Dementia in an Elderly Diabetic Population. <i>Lecture Notes in Computer Science</i> , 2017, , 150-158.	1.0	1
43	Comparison of Automatic Vessel Segmentation Techniques for Whole Body Magnetic Resonance Angiography with Limited Ground Truth Data. <i>Communications in Computer and Information Science</i> , 2017, , 144-155.	0.4	0
44	Extended Multi-resolution Local Patterns - A Discriminative Feature Learning Approach for Colonoscopy Image Classification. <i>Lecture Notes in Computer Science</i> , 2017, , 48-58.	1.0	0
45	The Accuracy and Reliability of Crowdsourced Annotations of Digital Retinal Images. <i>Translational Vision Science and Technology</i> , 2016, 5, 6.	1.1	29
46	Two-Dimensional Plane for Multi-Scale Quantification of Corneal Subbasal Nerve Tortuosity. , 2016, 57, 1132.		11
47	Gland segmentation in colon histology images using hand-crafted features and convolutional neural networks. , 2016, , .		38
48	Accelerating Convolutional Sparse Coding for Curvilinear Structures Segmentation by Refining SCIRD-TS Filter Banks. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 2381-2392.	5.4	37
49	Automatic Generation of Synthetic Retinal Fundus Images: Vascular Network. <i>Procedia Computer Science</i> , 2016, 90, 54-60.	1.2	23
50	Local structure prediction for gland segmentation. , 2016, , .		6
51	Hierarchical mix-pooling and its applications to biomedical image classification. , 2016, , .		1
52	A fully automated tortuosity quantification system with application to corneal nerve fibres in confocal microscopy images. <i>Medical Image Analysis</i> , 2016, 32, 216-232.	7.0	54
53	Leveraging Multiscale Hessian-Based Enhancement With a Novel Exudate Inpainting Technique for Retinal Vessel Segmentation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016, 20, 1129-1138.	3.9	105
54	Automatic Generation of Synthetic Retinal Fundus Images: Vascular Network. <i>Lecture Notes in Computer Science</i> , 2016, , 167-176.	1.0	9

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55	Sub-category Classifiers for Multiple-instance Learning and Its Application to Retinal Nerve Fiber Layer Visibility Classification. Lecture Notes in Computer Science, 2016, , 308-316.	1.0	5
56	Learning discriminative local features from image-level labelled data for colonoscopy image classification. , 2015, , .		5
57	Combining efficient hand-crafted features with learned filters for fast and accurate corneal nerve fibre centreline detection. , 2015, 2015, 5655-8.		3
58	Low-Rank Prior in Single Patches for Nonpointwise Impulse Noise Removal. IEEE Transactions on Image Processing, 2015, 24, 1485-1496.	6.0	17
59	Scale and Curvature Invariant Ridge Detector for Tortuous and Fragmented Structures. Lecture Notes in Computer Science, 2015, , 588-595.	1.0	21
60	Boosting Hand-Crafted Features for Curvilinear Structure Segmentation by Learning Context Filters. Lecture Notes in Computer Science, 2015, , 596-603.	1.0	5
61	Blood vessel segmentation and width estimation in ultra-wide field scanning laser ophthalmoscopy. Biomedical Optics Express, 2014, 5, 4329.	1.5	43
62	Charting-based subspace learning for video-based human action classification. Machine Vision and Applications, 2014, 25, 119-132.	1.7	8
63	Dynamic 3D shape of the plantar surface of the foot using coded structured light: a technical report. Journal of Foot and Ankle Research, 2014, 7, 5.	0.7	12
64	Objects, Actions, Places. International Journal of Computer Vision, 2014, 106, 235-236.	10.9	0
65	Inter-Cluster Features for Medical Image Classification. Lecture Notes in Computer Science, 2014, 17, 345-352.	1.0	8
66	Video-Specific SVMs for Colonoscopy Image Classification. Lecture Notes in Computer Science, 2014, , 11-21.	1.0	2
67	Automatic fovea location in retinal images using anatomical priors and vessel density. Pattern Recognition Letters, 2013, 34, 1152-1158.	2.6	31
68	Retinal vessel segmentation using multiwavelet kernels and multiscale hierarchical decomposition. Pattern Recognition, 2013, 46, 2117-2133.	5.1	128
69	Extended Gaussian-Filtered Local Binary Patterns for Colonoscopy Image Classification. , 2013, , .		8
70	Validating Retinal Fundus Image Analysis Algorithms: Issues and a Proposal. , 2013, 54, 3546.		142
71	Accurate estimation of retinal vessel width using bagged decision trees and an extended multiresolution Hermite model. Medical Image Analysis, 2013, 17, 1164-1180.	7.0	46
72	Investigating post-processing of scanning laser ophthalmoscope images for unsupervised retinal blood vessel detection. , 2013, , .		1

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73	Spline-based refinement of vessel contours in fundus retinal images for width estimation. , 2013, , .		6
74	Single-Patch Low-Rank Prior for Non-pointwise Impulse Noise Removal. , 2013, , .		4
75	Automatic normal-abnormal video frame classification for colonoscopy. , 2013, , .		17
76	Towards a multi-site international public dataset for the validation of retinal image analysis software. , 2013, 2013, 7152-5.		1
77	Effective features for artery-vein classification in digital fundus images. , 2012, , .		23
78	GroBa: Growing balloons for calibre measurement on stenotic lumens. , 2012, , .		0
79	A Face Authentication Scheme Based on Affine-SIFT (ASIFT) and Structural Similarity (SSIM). Lecture Notes in Computer Science, 2012, , 25-32.	1.0	3
80	Multiresolution localization and segmentation of the optical disc in fundus images using inpainted background and vessel information. , 2011, , .		9
81	A dynamic 3D foot reconstruction system. , 2011, 2011, 599-602.		4
82	Markerless human articulated tracking using hierarchical particle swarm optimisation. Image and Vision Computing, 2010, 28, 1530-1547.	2.7	92
83	FABC: Retinal Vessel Segmentation Using AdaBoost. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 1267-1274.	3.6	299
84	Deformable registration of retinal fluorescein angiogram sequences using vasculature structures. , 2010, 2010, 4383-6.		7
85	Improving SIFT-based Descriptors Stability to Rotations. , 2010, , .		18
86	ACM multimedia 2010 workshop on 3D video processing. , 2010, , .		0
87	Multiple view human articulated tracking using charting and particle swarm optimisation. , 2010, , .		3
88	Contextual optic disc location in retinal fundus images. Journal of Modern Optics, 2010, 57, 136-144.	0.6	8
89	Markerless Human Motion Capture Using Hierarchical Particle Swarm Optimisation. Communications in Computer and Information Science, 2010, , 343-356.	0.4	0
90	Automating progress measurement of construction projects. Automation in Construction, 2009, 18, 294-301.	4.8	83

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91	A Comparative Study on Feature Selection for Retinal Vessel Segmentation Using FABC. Lecture Notes in Computer Science, 2009, , 655-662.	1.0	15
92	Robust optic disc location via combination of weak detectors. , 2008, 2008, 3542-5.		10
93	Human Body Pose Estimation with Particle Swarm Optimisation. Evolutionary Computation, 2008, 16, 509-528.	2.3	32
94	Max-Min Central Vein Detection in Retinal Fundus Images. , 2006, , .		10
95	Self-Tuning Underwater Image Restoration. IEEE Journal of Oceanic Engineering, 2006, 31, 511-519.	2.1	132
96	Video Tracking: A Concise Survey. IEEE Journal of Oceanic Engineering, 2006, 31, 520-529.	2.1	110
97	Fundamentals of Multiple-View Geometry. , 2006, , 91-113.		7
98	Example-Based Simulation of Time-Gated Laser Sequences from a Single Video Image. , 2006, , .		0
99	When are Simple LS Estimators Enough? An Empirical Study of LS, TLS, and GTLS. International Journal of Computer Vision, 2006, 68, 203-216.	10.9	6
100	Thickness dependent tortuosity estimation for retinal blood vessels. , 2006, 2006, 4675-8.		26
101	Thickness dependent tortuosity estimation for retinal blood vessels. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	1
102	Appearance-based target recognition and classification in infrared imagery. , 2005, , .		0
103	Robust iris location in close-up images of the eye. Pattern Analysis and Applications, 2005, 8, 247-255.	3.1	14
104	Millimetre-Wave Personnel Scanners for Automated Weapon Detection. Lecture Notes in Computer Science, 2005, , 48-57.	1.0	2
105	Robust Correspondenceless 3-D Iris Location for Immersive Environments. Lecture Notes in Computer Science, 2005, , 123-130.	1.0	0
106	Image analysis for object detection in millimetre-wave images. , 2004, , .		16
107	Three-Dimensional Image Processing in the Future of Immersive Media. IEEE Transactions on Circuits and Systems for Video Technology, 2004, 14, 288-303.	5.6	58
108	HAUSDORFF ICONIC MATCHING WITH APPLICATION TO EYE TRACKING IN VIDEOCONFERENCING. , 2003, , .		1

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109	A trainable system for grading fish from images. Applied Artificial Intelligence, 2001, 15, 735-745.	2.0	25
110	A compact algorithm for rectification of stereo pairs. Machine Vision and Applications, 2000, 12, 16-22.	1.7	574
111	SYMMETRIC STEREO WITH MULTIPLE WINDOWING. International Journal of Pattern Recognition and Artificial Intelligence, 2000, 14, 1053-1066.	0.7	68
112	Robust motion and correspondence of noisy 3-D point sets with missing data. Pattern Recognition Letters, 1999, 20, 889-898.	2.6	104
113	Model-based planning of optimal sensor placements for inspection. IEEE Transactions on Automation Science and Engineering, 1997, 13, 182-194.	2.4	84
114	<title>Measurement errors in polarization-based 3D vision systems</title>. , 1997, , .		0
115	Computer and Robot Vision. AI Communications, 1995, 8, 50-51.	0.8	3
116	Geometric Invariance in Computer Vision. AI Communications, 1995, 8, 193-194.	0.8	4
117	Experiments in curvature-based segmentation of range data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1995, 17, 177-182.	9.7	91
118	Sensor planning techniques and active visual inspection. Lecture Notes in Computer Science, 1995, , 300-306.	1.0	0
119	Visibility scripts for active feature-based inspection. Pattern Recognition Letters, 1994, 15, 1151-1164.	2.6	5
120	Part segmentation of slice data using regularity. Signal Processing, 1993, 32, 73-90.	2.1	4
121	Active Vision. AI Communications, 1993, 6, 242-244.	0.8	0
122	Understanding scene descriptions by integrating different sources of knowledge. International Journal of Man-Machine Studies, 1992, 37, 47-81.	0.7	2
123	From Slice Data to Suggestive Parts. , 1992, , 289-300.		0
124	SCIA'91: Scandinavian Conference on Image Analysis. AI Communications, 1991, 4, 157-158.	0.8	0
125	Inferring convex subparts from slice data. Pattern Recognition Letters, 1991, 12, 707-715.	2.6	3
126	Reasoning About Iconic Data In Artificial Vision. , 1986, , .		0

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127	Tortuosity classification of corneal nerves images using a multiple-scale-multiple-window approach. , 0, , .		7