

Hrvoje BogunoviÄ

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

4,217
citations

201385

27
h-index

133063

59
g-index

85
all docs

85
docs citations

85
times ranked

4290
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial intelligence in retina. Progress in Retinal and Eye Research, 2018, 67, 1-29.	7.3	469
2	Fully Automated Detection and Quantification of Macular Fluid in OCT Using Deep Learning. Ophthalmology, 2018, 125, 549-558.	2.5	384
3	REFUGE Challenge: A unified framework for evaluating automated methods for glaucoma assessment from fundus photographs. Medical Image Analysis, 2020, 59, 101570.	7.0	354
4	Standardized evaluation methodology and reference database for evaluating coronary artery centerline extraction algorithms. Medical Image Analysis, 2009, 13, 701-714.	7.0	295
5	Why rankings of biomedical image analysis competitions should be interpreted with care. Nature Communications, 2018, 9, 5217.	5.8	198
6	Prediction of Individual Disease Conversion in Early AMD Using Artificial Intelligence. , 2018, 59, 3199.		144
7	Machine Learning to Analyze the Prognostic Value of Current Imaging Biomarkers in Neovascular Age-Related Macular Degeneration. Ophthalmology Retina, 2018, 2, 24-30.	1.2	143
8	RETOUCH: The Retinal OCT Fluid Detection and Segmentation Benchmark and Challenge. IEEE Transactions on Medical Imaging, 2019, 38, 1858-1874.	5.4	139
9	Prediction of Anti-VEGF Treatment Requirements in Neovascular AMD Using a Machine Learning Approach. , 2017, 58, 3240.		128
10	A view of the current and future role of optical coherence tomography in the management of age-related macular degeneration. Eye, 2017, 31, 26-44.	1.1	113
11	Characterization of Drusen and Hyperreflective Foci as Biomarkers for Disease Progression in Age-Related Macular Degeneration Using Artificial Intelligence in Optical Coherence Tomography. JAMA Ophthalmology, 2020, 138, 740.	1.4	99
12	Application of Automated Quantification of Fluid Volumes to Anti-VEGF Therapy of Neovascular Age-Related Macular Degeneration. Ophthalmology, 2020, 127, 1211-1219.	2.5	89
13	Exploiting Epistemic Uncertainty of Anatomy Segmentation for Anomaly Detection in Retinal OCT. IEEE Transactions on Medical Imaging, 2020, 39, 87-98.	5.4	88
14	Machine Learning of the Progression of Intermediate Age-Related Macular Degeneration Based on OCT Imaging. , 2017, 58, BIO141.		87
15	Joint retinal layer and fluid segmentation in OCT scans of eyes with severe macular edema using unsupervised representation and auto-context. Biomedical Optics Express, 2017, 8, 1874.	1.5	82
16	Three-Dimensional Automated Choroidal Volume Assessment on Standard Spectral-Domain Optical Coherence Tomography and Correlation With the Level of Diabetic Macular Edema. American Journal of Ophthalmology, 2014, 158, 1039-1048.e1.	1.7	70
17	Automated segmentation of cerebral vasculature with aneurysms in 3DRA and TOF-MRA using geodesic active regions: An evaluation study. Medical Physics, 2011, 38, 210-222.	1.6	67
18	Unsupervised Identification of Disease Marker Candidates in Retinal OCT Imaging Data. IEEE Transactions on Medical Imaging, 2019, 38, 1037-1047.	5.4	67

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19	Patient-Specific Computational Hemodynamics of Intracranial Aneurysms from 3D Rotational Angiography and CT Angiography: An In Vivo Reproducibility Study. <i>American Journal of Neuroradiology</i> , 2011, 32, 581-586.	1.2	56
20	Anatomical Labeling of the Circle of Willis Using Maximum A Posteriori Probability Estimation. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 1587-1599.	5.4	55
21	Quantification of Fluid Resolution and Visual Acuity Gain in Patients With Diabetic Macular Edema Using Deep Learning. <i>JAMA Ophthalmology</i> , 2020, 138, 945.	1.4	49
22	Role of Deep Learningâ€™Quantified Hyperreflective Foci for the Prediction of Geographic Atrophy Progression. <i>American Journal of Ophthalmology</i> , 2020, 216, 257-270.	1.7	48
23	Relationships of Retinal Structure and Humphrey 24-2 Visual Field Thresholds in Patients With Glaucoma. <i>Investigative Ophthalmology and Visual Science</i> , 2015, 56, 259-271.	3.3	43
24	Computational image analysis for prognosis determination in DME. <i>Vision Research</i> , 2017, 139, 204-210.	0.7	42
25	Reducing image variability across OCT devices with unsupervised unpaired learning for improved segmentation of retina. <i>Biomedical Optics Express</i> , 2020, 11, 346.	1.5	36
26	AGE challenge: Angle Closure Glaucoma Evaluation in Anterior Segment Optical Coherence Tomography. <i>Medical Image Analysis</i> , 2020, 66, 101798.	7.0	35
27	End-to-End Deep Learning Model for Predicting Treatment Requirements in Neovascular AMD From Longitudinal Retinal OCT Imaging. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 3456-3465.	3.9	35
28	Choroidal thickness maps from spectral domain and swept source optical coherence tomography: algorithmic versus ground truth annotation. <i>British Journal of Ophthalmology</i> , 2016, 100, 1372-1376.	2.1	34
29	U2-Net: A Bayesian U-Net Model With Epistemic Uncertainty Feedback For Photoreceptor Layer Segmentation In Pathological OCT Scans. , 2019, , .		34
30	Automated landmarking and geometric characterization of the carotid siphon. <i>Medical Image Analysis</i> , 2012, 16, 889-903.	7.0	32
31	ANALYSIS OF FLUID VOLUME AND ITS IMPACT ON VISUAL ACUITY IN THE FLUID STUDY AS QUANTIFIED WITH DEEP LEARNING. <i>Retina</i> , 2021, 41, 1318-1328.	1.0	32
32	Spatial Correspondence Between Intraretinal Fluid, Subretinal Fluid, and Pigment Epithelial Detachment in Neovascular Age-Related Macular Degeneration. , 2017, 58, 4039.		30
33	AI-based monitoring of retinal fluid in disease activity and under therapy. <i>Progress in Retinal and Eye Research</i> , 2022, 86, 100972.	7.3	30
34	Multi-Surface and Multi-Field Co-Segmentation of 3-D Retinal Optical Coherence Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 2242-2253.	5.4	29
35	Face image validation system. <i>Proc Int Symp Image Signal Process Anal</i> , 2005, , .	0.0	27
36	Automated quantification of macular fluid in retinal diseases and their response to anti-VEGF therapy. <i>British Journal of Ophthalmology</i> , 2022, 106, 113-120.	2.1	27

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37	The Effect of Pegcetacoplan Treatment on Photoreceptor Maintenance in Geographic Atrophy Monitored by Artificial Intelligence-Based OCT Analysis. <i>Ophthalmology Retina</i> , 2022, 6, 1009-1018.	1.2	27
38	Automatic Aneurysm Neck Detection Using Surface Voronoi Diagrams. <i>IEEE Transactions on Medical Imaging</i> , 2011, 30, 1863-1876.	5.4	25
39	AngioLab-A software tool for morphological analysis and endovascular treatment planning of intracranial aneurysms. <i>Computer Methods and Programs in Biomedicine</i> , 2012, 108, 806-819.	2.6	24
40	Predicting Progression of Age-Related Macular Degeneration Using OCT and Fundus Photography. <i>Ophthalmology Retina</i> , 2021, 5, 118-125.	1.2	24
41	Topographic Distribution and Progression of Soft Drusen Volume in Age-Related Macular Degeneration Implicate Neurobiology of Fovea. , 2021, 62, 26.		23
42	Supervised learning and dimension reduction techniques for quantification of retinal fluid in optical coherence tomography images. <i>Eye</i> , 2017, 31, 1212-1220.	1.1	22
43	Unbiased identification of novel subclinical imaging biomarkers using unsupervised deep learning. <i>Scientific Reports</i> , 2020, 10, 12954.	1.6	22
44	Automated Quantification of Photoreceptor alteration in macular disease using Optical Coherence Tomography and Deep Learning. <i>Scientific Reports</i> , 2020, 10, 5619.	1.6	21
45	Impact of Drusen Volume on Quantitative Fundus Autofluorescence in Early and Intermediate Age-Related Macular Degeneration. , 2019, 60, 1937.		20
46	Toward integrated management of cerebral aneurysms. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 2961-2982.	1.6	18
47	Evaluating the impact of vitreomacular adhesion on anti-VEGF therapy for retinal vein occlusion using machine learning. <i>Scientific Reports</i> , 2017, 7, 2928.	1.6	18
48	IMPACT OF RESIDUAL SUBRETINAL FLUID VOLUMES ON TREATMENT OUTCOMES IN A SUBRETINAL FLUID-TOLERANT TREAT-AND-EXTEND REGIMEN. <i>Retina</i> , 2021, 41, 2221-2228.	1.0	17
49	Automated Segmentability Index for Layer Segmentation of Macular SD-OCT Images. <i>Translational Vision Science and Technology</i> , 2016, 5, 14.	1.1	15
50	Identification and quantification of fibrotic areas in the human retina using polarization-sensitive OCT. <i>Biomedical Optics Express</i> , 2021, 12, 4380.	1.5	15
51	Impact of Intra- and Subretinal Fluid on Vision Based on Volume Quantification in the HARBOR Trial. <i>Ophthalmology Retina</i> , 2022, 6, 291-297.	1.2	14
52	Therapeutic response in the HAWK and HARRIER trials using deep learning in retinal fluid volume and compartment analysis. <i>Eye</i> , 2023, 37, 1160-1169.	1.1	14
53	Using Cyclegans for Effectively Reducing Image Variability Across OCT Devices and Improving Retinal Fluid Segmentation. , 2019, , .		13
54	Neuroretinal atrophy following resolution of macular oedema in retinal vein occlusion. <i>British Journal of Ophthalmology</i> , 2019, 103, 36-42.	2.1	13

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55	Spatio-temporal alterations in retinal and choroidal layers in the progression of age-related macular degeneration (AMD) in optical coherence tomography. <i>Scientific Reports</i> , 2021, 11, 5743.	1.6	13
56	Fundus autofluorescence and optical coherence tomography biomarkers associated with the progression of geographic atrophy secondary to age-related macular degeneration. <i>Eye</i> , 2021, , .	1.1	13
57	Image intensity standardization in 3D rotational angiography and its application to vascular segmentation. , 2008, , .		12
58	MORPHOLOGICAL AND FUNCTIONAL CHARACTERISTICS AT THE ONSET OF EXUDATIVE CONVERSION IN AGE-RELATED MACULAR DEGENERATION. <i>Retina</i> , 2020, 40, 1070-1078.	1.0	11
59	How to Exploit Weaknesses in Biomedical Challenge Design and Organization. <i>Lecture Notes in Computer Science</i> , 2018, , 388-395.	1.0	10
60	SYSTEMATIC CORRELATION OF CENTRAL SUBFIELD THICKNESS WITH RETINAL FLUID VOLUMES QUANTIFIED BY DEEP LEARNING IN THE MAJOR EXUDATIVE MACULAR DISEASES. <i>Retina</i> , 2022, 42, 831-841.	1.0	10
61	Developing and validating a multivariable prediction model which predicts progression of intermediate to late age-related macular degenerationâ€”the PINNACLE trial protocol. <i>Eye</i> , 2023, 37, 1275-1283.	1.1	9
62	Modeling Disease Progression in Retinal OCTs with Longitudinal Self-supervised Learning. <i>Lecture Notes in Computer Science</i> , 2019, , 44-52.	1.0	8
63	Reproducibility of image-based computational hemodynamics in intracranial aneurysms: Comparison of CTA AND 3DRA. , 2009, , .		7
64	Anatomical Labeling of the Anterior Circulation of the Circle of Willis Using Maximum a Posteriori Classification. <i>Lecture Notes in Computer Science</i> , 2011, 14, 330-337.	1.0	7
65	Linking Function and Structure with ReSensNet. <i>Ophthalmology Retina</i> , 2022, 6, 501-511.	1.2	7
66	Estimating perfusion using X-ray angiography. <i>Proc Int Symp Image Signal Process Anal</i> , 2005, , .	0.0	6
67	Projective Skip-Connections for Segmentation Along a Subset of Dimensions in Retinal OCT. <i>Lecture Notes in Computer Science</i> , 2021, , 431-441.	1.0	6
68	3D Modeling of Coronary Artery Bifurcations from CTA and Conventional Coronary Angiography. <i>Lecture Notes in Computer Science</i> , 2011, 14, 395-402.	1.0	6
69	Fast 3D centerline computation for tubular structures by front collapsing and fast marching. , 2010, , .		5
70	Automatic identification of internal carotid artery from 3DRA images. , 2010, 2010, 5343-6.		5
71	Deep Learning Prediction Of Age And Sex From Optical Coherence Tomography. , 2021, , .		5
72	Personalized treatment supported by automated quantitative fluid analysis in active neovascular age-related macular degeneration (nAMD)â€”a phase III, prospective, multicentre, randomized study: design and methods. <i>Eye</i> , 2023, 37, 1464-1469.	1.1	5

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73	AngioLab: Integrated technology for patient-specific management of intracranial aneurysms. , 2010, 2010, 6801-4.		4
74	Impact of B-Scan Averaging on Spectralis Optical Coherence Tomography Image Quality before and after Cataract Surgery. Journal of Ophthalmology, 2017, 2017, 1-8.	0.6	4
75	The Structure of the Pyramidia E-learning Tool - the Programmer's Point of View. , 2007, , .		3
76	An electronic journal management system. , 0, , .		2
77	Deep Learningâ€“Based Automated Optical Coherence Tomography Segmentation in Clinical Routine. JAMA Ophthalmology, 2021, 139, 973.	1.4	2
78	Cerebral Aneurysms: A Patient-Specific and Image-Based Management Pipeline. Computational Methods in Applied Sciences (Springer), 2011, , 327-349.	0.1	2
79	Denoising of Time-Density Data in Digital Subtraction Angiography. Lecture Notes in Computer Science, 2005, , 1157-1166.	1.0	1
80	OCT fluid detection and quantification. , 2019, , 273-298.		1
81	Predicting Drusen Regression from OCT in Patients with Age-Related Macular Degeneration. , 0, , .		1
82	Artificial Intelligence in Retinal Vascular Imaging. Retina Atlas, 2020, , 133-145.	0.0	1