

# Bhavna J Antony

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

1,131  
citations

687220

13  
h-index

552653

26  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1575  
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial Intelligence for Clinical Trial Design. Trends in Pharmacological Sciences, 2019, 40, 577-591.	4.0	288
2	A feature agnostic approach for glaucoma detection in OCT volumes. PLoS ONE, 2019, 14, e0219126.	1.1	132
3	DIRECTIONAL OPTICAL COHERENCE TOMOGRAPHY PROVIDES ACCURATE OUTER NUCLEAR LAYER AND HENLE FIBER LAYER MEASUREMENTS. Retina, 2015, 35, 1511-1520.	1.0	118
4	Deformable medical image registration using generative adversarial networks. , 2018, , .		84
5	Retinal optical coherence tomography image enhancement via deep learning. Biomedical Optics Express, 2018, 9, 6205.	1.5	73
6	Automated 3-D method for the correction of axial artifacts in spectral-domain optical coherence tomography images. Biomedical Optics Express, 2011, 2, 2403.	1.5	67
7	A combined machine-learning and graph-based framework for the segmentation of retinal surfaces in SD-OCT volumes. Biomedical Optics Express, 2013, 4, 2712.	1.5	46
8	Uncertainty Guided Semi-supervised Segmentation of Retinal Layers in OCT Images. Lecture Notes in Computer Science, 2019, , 282-290.	1.0	43
9	Attention-Guided 3D-CNN Framework for Glaucoma Detection and Structural-Functional Association Using Volumetric Images. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3421-3430.	3.9	30
10	The Henle Fiber Layer in Albinism: Comparison to Normal and Relationship to Outer Nuclear Layer Thickness and Foveal Cone Density. , 2018, 59, 5336.		26
11	Layer boundary evolution method for macular OCT layer segmentation. Biomedical Optics Express, 2019, 10, 1064.	1.5	24
12	Estimating Global Visual Field Indices in Glaucoma by Combining Macula and Optic Disc OCT Scans Using 3-Dimensional Convolutional Neural Networks. Ophthalmology Glaucoma, 2021, 4, 102-112.	0.9	23
13	Automated 3D segmentation of intraretinal layers from optic nerve head optical coherence tomography images. Proceedings of SPIE, 2010, , .	0.8	20
14	Joint Segmentation and Uncertainty Visualization of Retinal Layers in Optical Coherence Tomography Images Using Bayesian Deep Learning. Lecture Notes in Computer Science, 2018, , 219-227.	1.0	19
15	Automated 3D Segmentation of Multiple Surfaces with a Shared Hole: Segmentation of the Neural Canal Opening in SD-OCT Volumes. Lecture Notes in Computer Science, 2014, 17, 739-746.	1.0	16
16	Automated 3D Segmentation of Intraretinal Surfaces in SD-OCT Volumes in Normal and Diabetic Mice. Translational Vision Science and Technology, 2014, 3, 8.	1.1	15
17	Novel method using 3-dimensional segmentation in spectral domain-optical coherence tomography imaging in the chick reveals defocus-induced regional and time-sensitive asymmetries in the choroidal thickness. Visual Neuroscience, 2016, 33, E010.	0.5	12
18	Analysis of Agreement of Retinal-Layer Thickness Measures Derived from the Segmentation of Horizontal and Vertical Spectralis OCT Macular Scans. Current Eye Research, 2018, 43, 415-423.	0.7	12

#	ARTICLE	IF	CITATIONS
19	Simultaneous segmentation of retinal surfaces and microcystic macular edema in SDOCT volumes. Proceedings of SPIE, 2016, 9784, .	0.8	11
20	A Case for the Use of Artificial Intelligence in Glaucoma Assessment. Ophthalmology Glaucoma, 2022, 5, e3-e13.	0.9	10
21	Characterizing the Impact of Off-Axis Scan Acquisition on the Reproducibility of Total Retinal Thickness Measurements in SDOCT Volumes. Translational Vision Science and Technology, 2015, 4, 3.	1.1	9
22	Voxel based morphometry in optical coherence tomography: validation and core findings. , 2016, 9788, .		8
23	Automated segmentation of mouse OCT volumes (ASiMOV): Validation & clinical study of a light damage model. PLoS ONE, 2017, 12, e0181059.	1.1	8
24	Incorporation of texture-based features in optimal graph-theoretic approach with application to the 3D segmentation of intraretinal surfaces in SD-OCT volumes. , 2012, , .		7
25	Forecasting Retinal Nerve Fiber Layer Thickness from Multimodal Temporal Data Incorporating OCT Volumes. Ophthalmology Glaucoma, 2020, 3, 14-24.	0.9	7
26	3D graph-based automated segmentation of corneal layers in anterior-segment optical coherence tomography images of mice. Proceedings of SPIE, 2014, , .	0.8	5
27	Automated summarisation of SDOCT volumes using deep learning: Transfer learning vs de novo trained networks. PLoS ONE, 2019, 14, e0203726.	1.1	5
28	Directional Reflectivity of the Ellipsoid Zone in Dry Age-Related Macular Degeneration. Ophthalmic Surgery Lasers and Imaging Retina, 2021, 52, 145-152.	0.4	4
29	3D-CNN for Glaucoma Detection Using Optical Coherence Tomography. Lecture Notes in Computer Science, 2019, , 52-59.	1.0	3
30	Collaborative SDOCT segmentation and analysis software. , 2017, 10138, .		2
31	A new promising way for tackling the "Pharma Dilemma": artificial intelligence for clinical trials. Biochemist, 2019, 41, 10-14.	0.2	2
32	Binarization and Localization of Text Images Captured on a Mobile Phone Camera. , 2006, , .		1
33	Dueling Deep Q-Network For Unsupervised Inter-Frame Eye Movement Correction In Optical Coherence Tomography Volumes. , 2021, , .		1
34	Incorporation of learned shape priors into a graph-theoretic approach with application to the 3D segmentation of intraretinal surfaces in SD-OCT volumes of mice. Proceedings of SPIE, 2014, , .	0.8	0
35	Longitudinal analysis of mouse SDOCT volumes. , 2017, 10137, .		0
36	Novel method using 3-dimensional segmentation in spectral domain-optical coherence tomography imaging in the chick reveals defocus-induced regional and time-sensitive asymmetries in the choroidal thickness"ADDENDUM. Visual Neuroscience, 2017, 34, .	0.5	0