Michael D. Abrã moff

List of Publications by Year in descending order

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285 papers

19,926 citations

29994 54

h-index

19136

118 g-index

290 all docs

290 docs citations

290 times ranked

12189 citing authors

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| 1 | Ridge-Based Vessel Segmentation in Color Images of the Retina. IEEE Transactions on Medical Imaging, 2004, 23, 501-509. | 5.4 | 2,914 |
| 2 | Retinal Imaging and Image Analysis. IEEE Reviews in Biomedical Engineering, 2010, 3, 169-208. | 13.1 | 1,021 |
| 3 | Pivotal trial of an autonomous Al-based diagnostic system for detection of diabetic retinopathy in primary care offices. Npj Digital Medicine, 2018, 1, 39. | 5.7 | 796 |
| 4 | Improved Automated Detection of Diabetic Retinopathy on a Publicly Available Dataset Through Integration of Deep Learning., 2016, 57, 5200. | | 749 |
| 5 | Automated 3-D Intraretinal Layer Segmentation of Macular Spectral-Domain Optical Coherence Tomography Images. IEEE Transactions on Medical Imaging, 2009, 28, 1436-1447. | 5.4 | 535 |
| 6 | Comparative study of retinal vessel segmentation methods on a new publicly available database., 2004, 5370, 648. | | 496 |
| 7 | Retinal neurodegeneration may precede microvascular changes characteristic of diabetic retinopathy in diabetes mellitus. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2655-64. | 3.3 | 442 |
| 8 | Automatic detection of red lesions in digital color fundus photographs. IEEE Transactions on Medical Imaging, 2005, 24, 584-592. | 5.4 | 422 |
| 9 | Retinopathy Online Challenge: Automatic Detection of Microaneurysms in Digital Color Fundus Photographs. IEEE Transactions on Medical Imaging, 2010, 29, 185-195. | 5.4 | 414 |
| 10 | Automated Detection and Differentiation of Drusen, Exudates, and Cotton-Wool Spots in Digital Color Fundus Photographs for Diabetic Retinopathy Diagnosis., 2007, 48, 2260. | | 328 |
| 11 | Automated Analysis of Retinal Images for Detection of Referable Diabetic Retinopathy. JAMA Ophthalmology, 2013, 131, 351. | 1.4 | 312 |
| 12 | Selective Loss of Inner Retinal Layer Thickness in Type 1 Diabetic Patients with Minimal Diabetic Retinopathy., 2009, 50, 3404. | | 304 |
| 13 | Intraretinal Layer Segmentation of Macular Optical Coherence Tomography Images Using Optimal 3-D Graph Search. IEEE Transactions on Medical Imaging, 2008, 27, 1495-1505. | 5.4 | 300 |
| 14 | Deep learning in ophthalmology: The technical and clinical considerations. Progress in Retinal and Eye Research, 2019, 72, 100759. | 7.3 | 300 |
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| 16 | End-to-End Adversarial Retinal Image Synthesis. IEEE Transactions on Medical Imaging, 2018, 37, 781-791. | 5.4 | 277 |
| 17 | Automated Segmentation of the Optic Disc from Stereo Color Photographs Using Physiologically Plausible Features., 2007, 48, 1665. | | 275 |
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| 19 | 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 |
| 20 | Automated Early Detection of Diabetic Retinopathy. Ophthalmology, 2010, 117, 1147-1154. | 2.5 | 221 |
| 21 | Multiscale AM-FM Methods for Diabetic Retinopathy Lesion Detection. IEEE Transactions on Medical Imaging, 2010, 29, 502-512. | 5.4 | 220 |
| 22 | Validation of automated screening for referable diabetic retinopathy with the IDxâ€DR device in the Hoorn Diabetes Care System. Acta Ophthalmologica, 2018, 96, 63-68. | 0.6 | 195 |
| 23 | Segmentation of the Optic Disc, Macula and Vascular Arch in Fundus Photographs. IEEE Transactions on Medical Imaging, 2007, 26, 116-127. | 5.4 | 192 |
| 24 | Fast detection of the optic disc and fovea in color fundus photographs. Medical Image Analysis, 2009, 13, 859-870. | 7.0 | 188 |
| 25 | Three-Dimensional Analysis of Retinal Layer Texture: Identification of Fluid-Filled Regions in SD-OCT of the Macula. IEEE Transactions on Medical Imaging, 2010, 29, 1321-1330. | 5.4 | 186 |
| 26 | Artificial intelligence for diabetic retinopathy screening: a review. Eye, 2020, 34, 451-460. | 1.1 | 183 |
| 27 | Three-Dimensional Segmentation of Fluid-Associated Abnormalities in Retinal OCT: Probability Constrained Graph-Search-Graph-Cut. IEEE Transactions on Medical Imaging, 2012, 31, 1521-1531. | 5.4 | 169 |
| 28 | Identifying Ethical Considerations for Machine Learning Healthcare Applications. American Journal of Bioethics, 2020, 20, 7-17. | 0.5 | 160 |
| 29 | Effect of Age on Individual Retinal Layer Thickness in Normal Eyes as Measured With Spectral-Domain Optical Coherence Tomography. , 2013, 54, 4934. | | 157 |
| 30 | Automated Measurement of the Arteriolar-to-Venular Width Ratio in Digital Color Fundus Photographs. IEEE Transactions on Medical Imaging, 2011, 30, 1941-1950. | 5.4 | 153 |
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| 44 | Evaluation of a Computer-Aided Diagnosis System for Diabetic Retinopathy Screening on Public Data., 2011, 52, 4866. | | 101 |
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| 47 | Multiple surface segmentation using convolution neural nets: application to retinal layer segmentation in OCT images. Biomedical Optics Express, 2018, 9, 4509. | 1.5 | 95 |
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| 74 | Three-dimensional Distribution of the Vitelliform Lesion, Photoreceptors, and Retinal Pigment Epithelium in the Macula of Patients With Best Vitelliform Macular Dystrophy. JAMA Ophthalmology, 2012, 130, 357. | 2.6 | 54 |
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| 106 | Stimulus-Evoked Intrinsic Optical Signals in the Retina: Spatial and Temporal Characteristics. , 2009, 50, 4865. | | 32 |
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