Michael Goldbaum

List of Publications by Citations

50 papers	5,999 citations
26 h-index	51 g-index
51 ext. papers	7,565 ext. citations
7.1 avg, IF	5.18 L-index

#	Paper	IF	Citations
50	Identifying Medical Diagnoses and Treatable Diseases by Image-Based Deep Learning. *Cell*, **2018**, 172, 1122-1131.e9	56.2	1563
49	Locating blood vessels in retinal images by piecewise threshold probing of a matched filter response. *IEEE Transactions on Medical Imaging*, **2000**, 19, 203-10	11.7	1285
48	Detection of blood vessels in retinal images using two-dimensional matched filters. *IEEE Transactions on Medical Imaging*, **1989**, 8, 263-9	11.7	1013
47	Locating the optic nerve in a retinal image using the fuzzy convergence of the blood vessels. *IEEE Transactions on Medical Imaging*, **2003**, 22, 951-8	11.7	462
46	Measurement and classification of retinal vascular tortuosity. *International Journal of Medical Informatics*, **1999**, 53, 239-52	5.3	209
45	Evaluation and accurate diagnoses of pediatric diseases using artificial intelligence. *Nature Medicine*, **2019**, 25, 433-438	50.5	206
44	Comparison of machine learning and traditional classifiers in glaucoma diagnosis. *IEEE Transactions on Biomedical Engineering*, **2002**, 49, 963-74	5	136
43	Heidelberg retina tomograph measurements of the optic disc and parapapillary retina for detecting glaucoma analyzed by machine learning classifiers. *Investigative Ophthalmology and Visual Science*, **2004**, 45, 3144-51		76
42	Optic neuropathy associated with cryptococcal arachnoiditis in AIDS patients. *American Journal of Ophthalmology*, **1989**, 107, 523-7	4.9	71
41	Assessing susceptibility to age-related macular degeneration with genetic markers and environmental factors. *JAMA Ophthalmology*, **2011**, 129, 344-51		68
40	Relevance vector machine and support vector machine classifier analysis of scanning laser polarimetry retinal nerve fiber layer measurements. *Investigative Ophthalmology and Visual Science*, **2005**, 46, 1322-9		64
39	Bayesian machine learning classifiers for combining structural and functional measurements to classify healthy and glaucomatous eyes. *Investigative Ophthalmology and Visual Science*, **2008**, 49, 945-53		57
38	Macular and perimacular vascular remodelling sickling haemoglobinopathies. *British Journal of Ophthalmology*, **1976**, 60, 431-53	5.5	54
37	Confocal scanning laser ophthalmoscopy classifiers and stereophotograph evaluation for prediction of visual field abnormalities in glaucoma-suspect eyes. *Investigative Ophthalmology and Visual Science*, **2004**, 45, 2255-62		53
36	Deep Learning Approaches Predict Glaucomatous Visual Field Damage from OCT Optic Nerve Head En Face Images and Retinal Nerve Fiber Layer Thickness Maps. *Ophthalmology*, **2020**, 127, 346-356	7.3	46
35	Retinal depression sign indicating a small retinal infarct. *American Journal of Ophthalmology*, **1978**, 86, 45-55	4.9	43
34	Unsupervised machine learning with independent component analysis to identify areas of progression in glaucomatous visual fields. *Investigative Ophthalmology and Visual Science*, **2005**, 46, 3684-92		39

#	Citation		
33	Peripheral proliferative retinopathies. *Survey of Ophthalmology*, **1980**, 25, 1-14	6.1	37
32	Learning from data: recognizing glaucomatous defect patterns and detecting progression from visual field measurements. *IEEE Transactions on Biomedical Engineering*, **2014**, 61, 2112-24	5	36
31	Using unsupervised learning with variational bayesian mixture of factor analysis to identify patterns of glaucomatous visual field defects. *Investigative Ophthalmology and Visual Science*, **2004**, 45, 2596-605		32
30	Peripheral proliferative retinopathies: an update on angiogenesis, etiologies and management. *Survey of Ophthalmology*, **1994**, 38, 519-40	6.1	31
29	Using unsupervised learning with independent component analysis to identify patterns of glaucomatous visual field defects. *Investigative Ophthalmology and Visual Science*, **2005**, 46, 3676-83		30
28	Geometric analysis of radial buckling. *American Journal of Ophthalmology*, **1975**, 79, 958-65	4.9	30
27	Foveal hypoplasia demonstrated in vivo with optical coherence tomography. *American Journal of Ophthalmology*, **2003**, 135, 112-4	4.9	29
26	Evolution of the retinal black sunburst in sickling haemoglobinopathies. *British Journal of Ophthalmology*, **1975**, 59, 710-6	5.5	29
25	Common variant in VEGFA and response to anti-VEGF therapy for neovascular age-related macular degeneration. *Current Molecular Medicine*, **2013**, 13, 929-34	2.5	29
24	Ophthalmic manifestations of tuberous sclerosis: a review. *Clinical and Experimental Ophthalmology*, **2017**, 45, 81-86	2.4	24
23	Machine learning classifiers in glaucoma. *Optometry and Vision Science*, **2008**, 85, 396-405	2.1	23
22	Combining functional and structural tests improves the diagnostic accuracy of relevance vector machine classifiers. *Journal of Glaucoma*, **2010**, 19, 167-75	2.1	22
21	Glaucomatous patterns in Frequency Doubling Technology (FDT) perimetry data identified by unsupervised machine learning classifiers. *PLoS ONE*, **2014**, 9, e85941	3.7	22
20	A new perspective on Bruch's membrane and the retinal pigment epithelium. *British Journal of Ophthalmology*, **1982**, 66, 17-25	5.5	20
19	Cryotherapy of proliferative sickle retinopathy, II: triple freeze-thaw cycle. *British Journal of Ophthalmology*, **1979**, 63, 97-101	5.5	19
18	A Bayesian network based sequential inference for diagnosis of diseases from retinal images. *Pattern Recognition Letters*, **2005**, 26, 459-470	4.7	15
17	Association of LIPC and advanced age-related macular degeneration. *Eye*, **2013**, 27, 265-70; quiz 271	4.4	14
16	Comparison of 4 mg versus 20 mg intravitreal triamcinolone acetonide injections. *British Journal of Ophthalmology*, **2008**, 92, 810-3	5.5	14

15	Predicting Glaucoma before Onset Using Deep Learning. *Ophthalmology Glaucoma*, **2020**, 3, 262-268	2.2	13
14	Useful adjuncts for vitreoretinal surgery. *British Journal of Ophthalmology*, **1989**, 73, 435-9	5.5	12
13	Assessing visual field clustering schemes using machine learning classifiers in standard perimetry. *Investigative Ophthalmology and Visual Science*, **2007**, 48, 5582-90		11
12	Comparison of conventional color fundus photography and multicolor imaging in choroidal or retinal lesions. *Graefe's Archive for Clinical and Experimental Ophthalmology*, **2018**, 256, 643-649	3.8	10
11	Dynamics of the macular hole-silicone oil tamponade interface with patient positioning as imaged by spectral domain-optical coherence tomography. *Retina*, **2010**, 30, 924-9	3.6	10
10	Microangiographic changes in the traumatized brain. *Acta Radiologica: Diagnosis*, **1966**, 5, 341-51		8
9	Pattern recognition can detect subtle field defects in eyes of HIV individuals without retinitis under HAART. *Graefe's Archive for Clinical and Experimental Ophthalmology*, **2011**, 249, 491-8	3.8	7
8	Magnetic resonance imaging in the evaluation of vitreoretinal disease in eyes with intraocular silicone oil. *American Journal of Ophthalmology*, **1990**, 110, 366-70	4.9	7
7	A modified COMS plaque for iris melanoma. *Journal of Contemporary Brachytherapy*, **2011**, 3, 131-3	1.9	6
6	Bilateral endogenous Escherichia coli endophthalmitis in a neonate with meningitis. *Retina*, **1996**, 16, 341-2	3.6	6
5	GNAQ and PMS1 Mutations Associated with Uveal Melanoma, Ocular Surface Melanosis, and Nevus of Ota. *Ocular Oncology and Pathology*, **2019**, 5, 267-272	1.6	5
4	Optic nerve head problem. *Survey of Ophthalmology*, **2019**, 64, 579-583	6.1	2
3	Late intraocular pressure rise after repeat intravitreal triamcinolone acetonide injections. *Seminars in Ophthalmology*, **2004**, 19, 119-21	2.4	1
2	Visual phenomena perceived during pars plana vitrectomy under peribulbar block and monitored anaesthesia care. *British Journal of Ophthalmology*, **2016**, 100, 777-81	5.5	0
1	The fishmouth phenomenon in retinal detachment. *British Journal of Ophthalmology*, **1980**, 64, 383-4	5.5	