Meindert Niemeijer

List of Publications by Year
in descending order

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40 papers	7,951 citations	257357 24 h-index	501076 28 g-index
40 all docs	40 docs citations	40 times ranked	5292 citing authors

#	Article	IF	Citations
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	Comparative study of retinal vessel segmentation methods on a new publicly available database. , 2004, 5370, 648.		496
3	Automatic detection of red lesions in digital color fundus photographs. IEEE Transactions on Medical Imaging, 2005, 24, 584-592.	5.4	422
4	Retinopathy Online Challenge: Automatic Detection of Microaneurysms in Digital Color Fundus Photographs. IEEE Transactions on Medical Imaging, 2010, 29, 185-195.	5.4	414
5	Automated Detection and Differentiation of Drusen, Exudates, and Cotton-Wool Spots in Digital Color Fundus Photographs for Diabetic Retinopathy Diagnosis. , 2007, 48, 2260.		328
6	Automated Analysis of Retinal Images for Detection of Referable Diabetic Retinopathy. JAMA Ophthalmology, 2013, 131, 351.	1.4	312
7	End-to-End Adversarial Retinal Image Synthesis. IEEE Transactions on Medical Imaging, 2018, 37, 781-791.	5.4	277
8	Comparing and combining algorithms for computer-aided detection of pulmonary nodules in computed tomography scans: The ANODE09 study. Medical Image Analysis, 2010, 14, 707-722.	7.0	245
9	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
10	Automated Early Detection of Diabetic Retinopathy. Ophthalmology, 2010, 117, 1147-1154.	2.5	221
11	Segmentation of the Optic Disc, Macula and Vascular Arch in Fundus Photographs. IEEE Transactions on Medical Imaging, 2007, 26, 116-127.	5.4	192
12	Fast detection of the optic disc and fovea in color fundus photographs. Medical Image Analysis, 2009, 13, 859-870.	7.0	188
13	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
14	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
15	Splat Feature Classification With Application to Retinal Hemorrhage Detection in Fundus Images. IEEE Transactions on Medical Imaging, 2013, 32, 364-375.	5.4	147
16	Segmentation of the Optic Disc in 3-D OCT Scans of the Optic Nerve Head. IEEE Transactions on Medical Imaging, 2010, 29, 159-168.	5.4	144
17	Image structure clustering for image quality verification of color retina images in diabetic retinopathy screening. Medical Image Analysis, 2006, 10, 888-898.	7.0	128
18	Information Fusion for Diabetic Retinopathy CAD in Digital Color Fundus Photographs. IEEE Transactions on Medical Imaging, 2009, 28, 775-785.	5.4	105

#	Article	IF	Citations
19	On Combining Computer-Aided Detection Systems. IEEE Transactions on Medical Imaging, 2011, 30, 215-223.	5.4	103
20	Evaluation of a Computer-Aided Diagnosis System for Diabetic Retinopathy Screening on Public Data. , 2011, 52, 4866.		101
21	Vessel Boundary Delineation on Fundus Images Using Graph-Based Approach. IEEE Transactions on Medical Imaging, 2011, 30, 1184-1191.	5.4	93
22	Automated Segmentation of the Cup and Rim from Spectral Domain OCT of the Optic Nerve Head. , 2009, 50, 5778.		82
23	Multimodal Segmentation of Optic Disc and Cup From SD-OCT and Color Fundus Photographs Using a Machine-Learning Graph-Based Approach. IEEE Transactions on Medical Imaging, 2015, 34, 1854-1866.	5.4	62
24	Automated detection of diabetic retinopathy: barriers to translation into clinical practice. Expert Review of Medical Devices, 2010, 7, 287-296.	1.4	60
25	The automatic detection of the optic disc location in retinal images using optic disc location regression. , 2006, 2006, 4432-5.		49
26	Vessel segmentation in 3D spectral OCT scans of the retina. , 2008, , .		46
27	Automatic classification of retinal vessels into arteries and veins. Proceedings of SPIE, 2009, , .	0.8	46
28	Multimodal Retinal Vessel Segmentation From Spectral-Domain Optical Coherence Tomography and Fundus Photography. IEEE Transactions on Medical Imaging, 2012, 31, 1900-1911.	5.4	43
29	Contextual computer-aided detection: Improving bright lesion detection in retinal images and coronary calcification identification in CT scans. Medical Image Analysis, 2012, 16, 50-62.	7.0	41
30	Registration of 3D spectral OCT volumes using 3D SIFT feature point matching. Proceedings of SPIE, 2009, , .	0.8	29
31	Splat feature classification: Detection of the presence of large retinal hemorrhages. , 2011, , .		23
32	Automated segmentation of the optic disc margin in 3-D optical coherence tomography images using a graph-theoretic approach. Proceedings of SPIE, 2009, , .	0.8	18
33	Automated Segmentation of 3-D Spectral OCT Retinal Blood Vessels by Neural Canal Opening False Positive Suppression. Lecture Notes in Computer Science, 2010, 13, 33-40.	1.0	18
34	Registration of 3D spectral OCT volumes combining ICP with a graph-based approach. , 2012, , .		10
35	Multimodal segmentation of optic disc and cup from stereo fundus and SD-OCT images. Proceedings of SPIE, 2013, , .	0.8	8
36	Automatic determination of the artery vein ratio in retinal images. Proceedings of SPIE, 2010, , .	0.8	7

#	Article	IF	Citations
37	Active learning approach for detection of hard exudates, cotton wool spots, and drusen in retinal images. , 2009, , .		5
38	Mass Screening of Diabetic Retinopathy Using Automated Methods. , 2015, , 41-50.		4
39	Detecting Retinal Pathology Automatically with Special Emphasis on Diabetic Retinopathy. , 2009, , .		4
40	Comparison of classifier performance for information fusion in automated Diabetic Retinopathy screening. , 2011, , .		1