Behdad Dashtbozorg

List of Publications by Year
in descending order

40	1,218	567144	414303
papers	citations	15	32
		h-index	g-index

42	42	42	1304
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Robust Retinal Vessel Segmentation via Locally Adaptive Derivative Frames in Orientation Scores. IEEE Transactions on Medical Imaging, 2016, 35, 2631-2644.	5.4	300
2	An Automatic Graph-Based Approach for Artery/Vein Classification in Retinal Images. IEEE Transactions on Image Processing, 2014, 23, 1073-1083.	6.0	172
3	Retinal vessel delineation using a brain-inspired wavelet transform and random forest. Pattern Recognition, 2017, 69, 107-123.	5.1	99
4	Optic disc segmentation using the sliding band filter. Computers in Biology and Medicine, 2015, 56, 1-12.	3.9	92
5	Retinal Microaneurysms Detection Using Local Convergence Index Features. IEEE Transactions on Image Processing, 2018, 27, 3300-3315.	6.0	79
6	Reliability of Using Retinal Vascular Fractal Dimension as a Biomarker in the Diabetic Retinopathy Detection. Journal of Ophthalmology, 2016, 2016, 1-13.	0.6	52
7	Broadband hyperspectral imaging for breast tumor detection using spectral and spatial information. Biomedical Optics Express, 2019, 10, 4496.	1.5	43
8	Artery/vein classification using reflection features in retina fundus images. Machine Vision and Applications, 2018, 29, 23-34.	1.7	41
9	Retinal artery/vein classification using genetic-search feature selection. Computer Methods and Programs in Biomedicine, 2018, 161, 197-207.	2.6	41
10	Multi-modal and multi-vendor retina image registration. Biomedical Optics Express, 2018, 9, 410.	1.5	36
11	Toward complete oral cavity cancer resection using a handheld diffuse reflectance spectroscopy probe. Journal of Biomedical Optics, 2018, 23, 1.	1.4	26
12	Automatic detection of vascular bifurcations and crossings in retinal images using orientation scores. , 2016, , .		25
13	Brain-inspired algorithms for retinal image analysis. Machine Vision and Applications, 2016, 27, 1117-1135.	1.7	22
14	Automatic Optic Disc and Fovea Detection in Retinal Images Using Super-Elliptical Convergence Index Filters. Lecture Notes in Computer Science, 2016, , 697-706.	1.0	22
15	Robust and Fast Vessel Segmentation via Gaussian Derivatives in Orientation Scores. Lecture Notes in Computer Science, 2015, , 537-547.	1.0	18
16	Type 2 diabetes and HbA1c are independently associated with wider retinal arterioles: the Maastricht study. Diabetologia, 2020, 63, 1408-1417.	2.9	18
17	Optimizing algorithm development for tissue classification in colorectal cancer based on diffuse reflectance spectra. Biomedical Optics Express, 2019, 10, 6096.	1.5	16
18	Reconnection of Interrupted Curvilinear Structures via Cortically Inspired Completion for Ophthalmologic Images. IEEE Transactions on Biomedical Engineering, 2018, 65, 1151-1165.	2.5	10

#	Article	IF	Citations
19	Automatic corneal nerve fiber segmentation and geometric biomarker quantification. European Physical Journal Plus, 2020, 135, 1.	1.2	10
20	Stability Analysis of Fractal Dimension in Retinal Vasculature. , 0, , .		10
21	Layer thickness prediction and tissue classification in two-layered tissue structures using diffuse reflectance spectroscopy. Scientific Reports, 2022, 12, 1698.	1.6	9
22	An automatic method for the estimation of Arteriolar-to-Venular Ratio in retinal images. , 2013, , .		8
23	RetinaCAD, a system for the assessment of retinal vascular changes. , 2014, 2014, 6328-31.		8
24	Discriminating healthy from tumor tissue in breast lumpectomy specimens using deep learning-based hyperspectral imaging. Biomedical Optics Express, 2022, 13, 2581.	1.5	8
25	A Comparative Study Towards theÂEstablishment of an Automatic Retinal Vessel Width Measurement Technique. Lecture Notes in Computer Science, 2017, , 227-234.	1.0	6
26	Feasibility of Ex Vivo Margin Assessment with Hyperspectral Imaging during Breast-Conserving Surgery: From Imaging Tissue Slices to Imaging Lumpectomy Specimen. Applied Sciences (Switzerland), 2021, 11, 8881.	1.3	5
27	Retinal health information and notification system (RHINO). , 2017, , .		4
28	Exploring the Similarity of Medical Imaging Classification Problems. Lecture Notes in Computer Science, 2017, , 59-66.	1.0	4
29	From Local to Global: A Graph Framework for Retinal Artery/Vein Classification. IEEE Transactions on Nanobioscience, 2020, 19, 589-597.	2.2	3
30	Speech enhancement using hybrid Generalized Sidelobe Canceller and spectral estimator. , 2008, , .		2
31	Speech dereverberation in noisy environments using an adaptive minimum mean square error estimator. IET Signal Processing, 2011, 5, 130.	0.9	2
32	Automatic Estimation of the Arteriolar-to-Venular Ratio in Retinal Images Using a Graph-Based Approach for Artery/Vein Classification. Lecture Notes in Computer Science, 2013, , 530-538.	1.0	2
33	Assessment of vascular changes in retinal images. , 2014, , .		2
34	Assessment of Retinal Vascular Changes Through Arteriolar-to-Venular Ratio Calculation. Lecture Notes in Computer Science, 2015, , 335-343.	1.0	2
35	A fully automated pipeline of extracting biomarkers to quantify vascular changes in retina-related diseases. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2019, 7, 616-631.	1.3	2
36	Analysis of Retinal Vascular Biomarkers for Early Detection of Diabetes. Lecture Notes in Computational Vision and Biomechanics, 2018, , 811-817.	0.5	2

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37	Nonlinear multispectral imaging for tumor delineation. Journal of Biomedical Optics, 2020, 25, .	1.4	2
38	Automatic and semi-automatic approaches for arteriolar-to-venular computation in retinal photographs. , 2017, , .		1
39	Vascular biomarkers for diabetes and diabetic retinopathy screening. , 2019, , 319-352.		1
40	Validation Study on Retinal Vessel Caliber Measurement Technique. Lecture Notes in Computational Vision and Biomechanics, 2018, , 818-826.	0.5	0