Behdad Dashtbozorg

List of Publications by Year
in descending order

40 papers	1,218 citations	567144 15 h-index	414303 32 g-index
42 all docs	42 docs citations	42 times ranked	1304 citing authors

#	Article	IF	Citations
1	Layer thickness prediction and tissue classification in two-layered tissue structures using diffuse reflectance spectroscopy. Scientific Reports, 2022, 12, 1698.	1.6	9
2	Discriminating healthy from tumor tissue in breast lumpectomy specimens using deep learning-based hyperspectral imaging. Biomedical Optics Express, 2022, 13, 2581.	1.5	8
3	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
4	Type 2 diabetes and HbA1c are independently associated with wider retinal arterioles: the Maastricht study. Diabetologia, 2020, 63, 1408-1417.	2.9	18
5	Automatic corneal nerve fiber segmentation and geometric biomarker quantification. European Physical Journal Plus, 2020, 135, 1.	1.2	10
6	From Local to Global: A Graph Framework for Retinal Artery/Vein Classification. IEEE Transactions on Nanobioscience, 2020, 19, 589-597.	2.2	3
7	Nonlinear multispectral imaging for tumor delineation. Journal of Biomedical Optics, 2020, 25, .	1.4	2
8	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
9	Vascular biomarkers for diabetes and diabetic retinopathy screening. , 2019, , 319-352.		1
10	Broadband hyperspectral imaging for breast tumor detection using spectral and spatial information. Biomedical Optics Express, 2019, 10, 4496.	1.5	43
11	Optimizing algorithm development for tissue classification in colorectal cancer based on diffuse reflectance spectra. Biomedical Optics Express, 2019, 10, 6096.	1.5	16
12	Reconnection of Interrupted Curvilinear Structures via Cortically Inspired Completion for Ophthalmologic Images. IEEE Transactions on Biomedical Engineering, 2018, 65, 1151-1165.	2.5	10
13	Retinal Microaneurysms Detection Using Local Convergence Index Features. IEEE Transactions on Image Processing, 2018, 27, 3300-3315.	6.0	79
14	Artery/vein classification using reflection features in retina fundus images. Machine Vision and Applications, 2018, 29, 23-34.	1.7	41
15	Multi-modal and multi-vendor retina image registration. Biomedical Optics Express, 2018, 9, 410.	1.5	36
16	Retinal artery/vein classification using genetic-search feature selection. Computer Methods and Programs in Biomedicine, 2018, 161, 197-207.	2.6	41
17	Analysis of Retinal Vascular Biomarkers for Early Detection of Diabetes. Lecture Notes in Computational Vision and Biomechanics, 2018, , 811-817.	0.5	2
18	Toward complete oral cavity cancer resection using a handheld diffuse reflectance spectroscopy probe. Journal of Biomedical Optics, 2018, 23, 1.	1.4	26

#	Article	IF	Citations
19	Validation Study on Retinal Vessel Caliber Measurement Technique. Lecture Notes in Computational Vision and Biomechanics, 2018, , 818-826.	0.5	0
20	Retinal vessel delineation using a brain-inspired wavelet transform and random forest. Pattern Recognition, 2017, 69, 107-123.	5.1	99
21	Automatic and semi-automatic approaches for arteriolar-to-venular computation in retinal photographs. , 2017, , .		1
22	Retinal health information and notification system (RHINO). , 2017, , .		4
23	Exploring the Similarity of Medical Imaging Classification Problems. Lecture Notes in Computer Science, 2017, , 59-66.	1.0	4
24	A Comparative Study Towards theÂEstablishment of an Automatic Retinal Vessel Width Measurement Technique. Lecture Notes in Computer Science, 2017, , 227-234.	1.0	6
25	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
26	Automatic detection of vascular bifurcations and crossings in retinal images using orientation scores. , 2016, , .		25
27	Robust Retinal Vessel Segmentation via Locally Adaptive Derivative Frames in Orientation Scores. IEEE Transactions on Medical Imaging, 2016, 35, 2631-2644.	5.4	300
28	Brain-inspired algorithms for retinal image analysis. Machine Vision and Applications, 2016, 27, 1117-1135.	1.7	22
29	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
30	Assessment of Retinal Vascular Changes Through Arteriolar-to-Venular Ratio Calculation. Lecture Notes in Computer Science, 2015, , 335-343.	1.0	2
31	Robust and Fast Vessel Segmentation via Gaussian Derivatives in Orientation Scores. Lecture Notes in Computer Science, 2015, , 537-547.	1.0	18
32	Optic disc segmentation using the sliding band filter. Computers in Biology and Medicine, 2015, 56, 1-12.	3.9	92
33	RetinaCAD, a system for the assessment of retinal vascular changes. , 2014, 2014, 6328-31.		8
34	An Automatic Graph-Based Approach for Artery/Vein Classification in Retinal Images. IEEE Transactions on Image Processing, 2014, 23, 1073-1083.	6.0	172
35	Assessment of vascular changes in retinal images. , 2014, , .		2
36	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

#	Article	IF	Citations
37	An automatic method for the estimation of Arteriolar-to-Venular Ratio in retinal images. , 2013, , .		8
38	Speech dereverberation in noisy environments using an adaptive minimum mean square error estimator. IET Signal Processing, 2011, 5, 130.	0.9	2
39	Speech enhancement using hybrid Generalized Sidelobe Canceller and spectral estimator. , 2008, , .		2
40	Stability Analysis of Fractal Dimension in Retinal Vasculature. , 0, , .		10