

Gwenole Quellec

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

4,484
citations

159585

30
h-index

182427

51
g-index

84
all docs

84
docs citations

84
times ranked

3677
citing authors

#	ARTICLE	IF	CITATIONS
1	Automation of dry eye disease quantitative assessment: A review. <i>Clinical and Experimental Ophthalmology</i> , 2022, 50, 653-666.	2.6	6
2	Longitudinal Detection of Diabetic Retinopathy Early Severity Grade Changes Using Deep Learning. <i>Lecture Notes in Computer Science</i> , 2021, , 11-20.	1.3	3
3	Deep Active Learning for Dual-View Mammogram Analysis. <i>Lecture Notes in Computer Science</i> , 2021, , 180-189.	1.3	1
4	Retinal Fundus Multi-Disease Image Dataset (RFMiD): A Dataset for Multi-Disease Detection Research. <i>Data</i> , 2021, 6, 14.	2.3	75
5	Two-stage multi-scale breast mass segmentation for full mammogram analysis without user intervention. <i>Biocybernetics and Biomedical Engineering</i> , 2021, 41, 746-757.	5.9	10
6	Towards improved breast mass detection using dual-view mammogram matching. <i>Medical Image Analysis</i> , 2021, 71, 102083.	11.6	16
7	CaDIS: Cataract dataset for surgical RGB-image segmentation. <i>Medical Image Analysis</i> , 2021, 71, 102053.	11.6	34
8	ExplAIn: Explanatory artificial intelligence for diabetic retinopathy diagnosis. <i>Medical Image Analysis</i> , 2021, 72, 102118.	11.6	28
9	Automatic Screening for Ocular Anomalies Using Fundus Photographs. <i>Optometry and Vision Science</i> , 2021, Publish Ahead of Print, .	1.2	1
10	IDRiD: Diabetic Retinopathy " Segmentation and Grading Challenge. <i>Medical Image Analysis</i> , 2020, 59, 101561.	11.6	162
11	A new deep learning-based method for the detection of gait events in children with gait disorders: Proof-of-concept and concurrent validity. <i>Journal of Biomechanics</i> , 2020, 98, 109490.	2.1	44
12	Automatic detection of rare pathologies in fundus photographs using few-shot learning. <i>Medical Image Analysis</i> , 2020, 61, 101660.	11.6	53
13	Multi-tasking Siamese Networks for Breast Mass Detection Using Dual-View Mammogram Matching. <i>Lecture Notes in Computer Science</i> , 2020, , 312-321.	1.3	6
14	Unsupervised learning-based long-term superpixel tracking. <i>Image and Vision Computing</i> , 2019, 89, 289-301.	4.5	6
15	Cascaded multi-scale convolutional encoder-decoders for breast mass segmentation in high-resolution mammograms. , 2019, 2019, 6738-6741.		14
16	Feasibility of support vector machine learning in age-related macular degeneration using small sample yielding sparse optical coherence tomography data. <i>Acta Ophthalmologica</i> , 2019, 97, e719-e728.	1.1	10
17	CATARACTS: Challenge on automatic tool annotation for cataRACT surgery. <i>Medical Image Analysis</i> , 2019, 52, 24-41.	11.6	58
18	Monitoring tool usage in surgery videos using boosted convolutional and recurrent neural networks. <i>Medical Image Analysis</i> , 2018, 47, 203-218.	11.6	53

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19	Optical flow estimation in ocular endoscopy videos using flownet on simulated endoscopy data. , 2018, , .		3
20	Long-term superpixel tracking using unsupervised learning and multi-step integration. , 2018, , .		0
21	Robust Supervoxel Matching Combining Mid-Level Spectral and Context-Rich Features. Lecture Notes in Computer Science, 2018, , 39-47.	1.3	2
22	Multiple-Instance Learning for Medical Image and Video Analysis. IEEE Reviews in Biomedical Engineering, 2017, 10, 213-234.	18.0	144
23	Deep image mining for diabetic retinopathy screening. Medical Image Analysis, 2017, 39, 178-193.	11.6	338
24	Real-time analysis of cataract surgery videos using statistical models. Multimedia Tools and Applications, 2017, 76, 22473-22491.	3.9	34
25	Automatic Detection of Suspicious Lesions in Digital X-ray Mammograms. Lecture Notes in Electrical Engineering, 2017, , 375-385.	0.4	6
26	Surgical tool detection in cataract surgery videos through multi-image fusion inside a convolutional neural network. , 2017, 2017, 2002-2005.		15
27	Proxy Re-Encryption Based on Homomorphic Encryption. , 2017, , .		8
28	Smart data augmentation for surgical tool detection on the surgical tray. , 2017, 2017, 4407-4410.		3
29	Suitability of a Low-Cost, Handheld, Nonmydriatic Retinograph for Diabetic Retinopathy Diagnosis. Translational Vision Science and Technology, 2016, 5, 16.	2.2	23
30	Mapping the retinas of a patient using a mixed set of fundus photographs from both eyes. , 2016, 2016, 3239-3242.		0
31	An end to end secure CBIR over encrypted medical database. , 2016, 2016, 2537-2540.		7
32	Multiple-Instance Learning for Anomaly Detection in Digital Mammography. IEEE Transactions on Medical Imaging, 2016, 35, 1604-1614.	8.9	59
33	Automatic detection of referral patients due to retinal pathologies through data mining. Medical Image Analysis, 2016, 29, 47-64.	11.6	39
34	Automatic Diagnosing of Suspicious Lesions in Digital Mammograms. International Journal of Advanced Computer Science and Applications, 2016, 7, .	0.7	4
35	Content-based image retrieval in homomorphic encryption domain. , 2015, 2015, 2944-7.		24
36	Multiple-instance learning for breast cancer detection in mammograms. , 2015, 2015, 7055-8.		3

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37	Real-Time Task Recognition in Cataract Surgery Videos Using Adaptive Spatiotemporal Polynomials. IEEE Transactions on Medical Imaging, 2015, 34, 877-887.	8.9	40
38	Multimedia Information Retrieval from Ophthalmic Digital Archives. , 2015, , 95-114.		0
39	Quantitative Analysis of Fluorescence Lifetime Measurements of the Macula Using the Fluorescence Lifetime Imaging Ophthalmoscope in Healthy Subjects. , 2014, 55, 2106.		100
40	Automated surgical step recognition in normalized cataract surgery videos. , 2014, 2014, 4647-50.		14
41	Normalizing videos of anterior eye segment surgeries. , 2014, 2014, 122-5.		9
42	Estimating maximal measurable performance for automated decision systems from the characteristics of the reference standard. application to diabetic retinopathy screening. , 2014, 2014, 154-7.		9
43	Real-Time Segmentation and Recognition of Surgical Tasks in Cataract Surgery Videos. IEEE Transactions on Medical Imaging, 2014, 33, 2352-2360.	8.9	53
44	Real-time recognition of surgical tasks in eye surgery videos. Medical Image Analysis, 2014, 18, 579-590.	11.6	37
45	Exudate detection in color retinal images for mass screening of diabetic retinopathy. Medical Image Analysis, 2014, 18, 1026-1043.	11.6	225
46	Automated Analysis of Retinal Images for Detection of Referable Diabetic Retinopathy. JAMA Ophthalmology, 2013, 131, 351.	2.5	312
47	Mass segmentation in mammograms by using Bidimensional Emperical Mode Decomposition BEMD. , 2013, 2013, 5441-4.		2
48	Validating Retinal Fundus Image Analysis Algorithms: Issues and a Proposal. , 2013, 54, 3546.		142
49	TeleOphta: Machine learning and image processing methods for teleophthalmology. Irbm, 2013, 34, 196-203.	5.6	334
50	Multimedia data mining for automatic diabetic retinopathy screening. , 2013, 2013, 7144-7.		5
51	A Polynomial Model of Surgical Gestures for Real-Time Retrieval of Surgery Videos. Lecture Notes in Computer Science, 2013, , 10-20.	1.3	7
52	A general framework for detecting diabetic retinopathy lesions in eye fundus images. , 2012, , .		2
53	Motion-based video retrieval with application to computer-assisted retinal surgery. , 2012, 2012, 4962-5.		7
54	Studying disagreements among retinal experts through image analysis. , 2012, 2012, 5959-62.		2

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55	Image Change Detection Using Paradoxical Theory for Patient Follow-Up Quantitation and Therapy Assessment. IEEE Transactions on Medical Imaging, 2012, 31, 1743-1753.	8.9	4
56	Comprehensive wavelet-based image characterization for Content-Based Image Retrieval. , 2012, , .		2
57	Weakly supervised classification of medical images. , 2012, , .		15
58	A multiple-instance learning framework for diabetic retinopathy screening. Medical Image Analysis, 2012, 16, 1228-1240.	11.6	77
59	Fast Wavelet-Based Image Characterization for Highly Adaptive Image Retrieval. IEEE Transactions on Image Processing, 2012, 21, 1613-1623.	9.8	89
60	Recherche en temps réel de séquences vidéo similaires par le contenu. Traitement Du Signal, 2012, 29, 83-100.	1.3	0
61	Fouille d'images multi-instance et multi-résolution appliquée au dépistage de la rétinopathie diabétique. Irbm, 2011, 32, 342-350.	5.6	1
62	Content-Based Medical Video Retrieval Based on Region Motion Trajectories. IFMBE Proceedings, 2011, , 622-625.	0.3	6
63	Computational Quantification of Complex Fundus Phenotypes in Age-Related Macular Degeneration and Stargardt Disease. , 2011, 52, 2976.		14
64	Automated Discovery and Quantification of Image-Based Complex Phenotypes: A Twin Study of Drusen Phenotypes in Age-Related Macular Degeneration. , 2011, 52, 9195.		7
65	Case Retrieval in Medical Databases by Fusing Heterogeneous Information. IEEE Transactions on Medical Imaging, 2011, 30, 108-118.	8.9	51
66	Optimal Filter Framework for Automated, Instantaneous Detection of Lesions in Retinal Images. IEEE Transactions on Medical Imaging, 2011, 30, 523-533.	8.9	97
67	Real-time retrieval of similar videos with application to computer-aided retinal surgery. , 2011, 2011, 4465-8.		13
68	Automated Assessment of Diabetic Retinopathy Severity Using Content-Based Image Retrieval in Multimodal Fundus Photographs. , 2011, 52, 8342.		33
69	Use of a twin dataset to identify AMD-related visual patterns controlled by genetic factors. Proceedings of SPIE, 2010, , .	0.8	0
70	Medical Case Retrieval From a Committee of Decision Trees. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 1227-1235.	3.2	31
71	Retinopathy Online Challenge: Automatic Detection of Microaneurysms in Digital Color Fundus Photographs. IEEE Transactions on Medical Imaging, 2010, 29, 185-195.	8.9	414
72	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.	8.9	186

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73	Wavelet optimization for content-based image retrieval in medical databases. Medical Image Analysis, 2010, 14, 227-241.	11.6	164
74	Automated Quantification of Inherited Phenotypes from Color Images: A Twin Study of the Variability of Optic Nerve Head Shape. , 2010, 51, 5870.		8
75	Automated Early Detection of Diabetic Retinopathy. Ophthalmology, 2010, 117, 1147-1154.	5.2	221
76	Adaptive Nonseparable Wavelet Transform via Lifting and its Application to Content-Based Image Retrieval. IEEE Transactions on Image Processing, 2010, 19, 25-35.	9.8	87
77	Multimodal Medical Case Retrieval using Dezert-Smarandache Theory with A Priori Knowledge. IFMBE Proceedings, 2009, , 716-719.	0.3	3
78	Recherche de cas médicaux multimodaux à l'aide d'arbres de décision. Irbm, 2008, 29, 35-43.	5.6	3
79	Optimal Wavelet Transform for the Detection of Microaneurysms in Retina Photographs. IEEE Transactions on Medical Imaging, 2008, 27, 1230-1241.	8.9	285
80	Multimodal medical case retrieval using the Dezert-Smarandache theory. , 2008, 2008, 394-7.		7
81	Multimodal medical case retrieval using Bayesian networks and the Dezert-Smarandache theory. , 2008, , .		3
82	Multimedia medical case retrieval using decision trees. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4536-9.	0.5	12
83	Content Based Image Retrieval based on Wavelet Transform coefficients distribution. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4532-5.	0.5	36
84	Detection of lesions in retina photographs based on the wavelet transform. , 2006, 2006, 2618-21.		23