

Clara I SÃ¡nchez

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

14,221
citations

136740

32
h-index

189595

50
g-index

60
all docs

60
docs citations

60
times ranked

17803
citing authors

#	ARTICLE	IF	CITATIONS
1	A survey on deep learning in medical image analysis. <i>Medical Image Analysis</i> , 2017, 42, 60-88.	7.0	7,976
2	Pulmonary Nodule Detection in CT Images: False Positive Reduction Using Multi-View Convolutional Networks. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 1160-1169.	5.4	926
3	Deep learning as a tool for increased accuracy and efficiency of histopathological diagnosis. <i>Scientific Reports</i> , 2016, 6, 26286.	1.6	764
4	Large scale deep learning for computer aided detection of mammographic lesions. <i>Medical Image Analysis</i> , 2017, 35, 303-312.	7.0	728
5	Retinopathy Online Challenge: Automatic Detection of Microaneurysms in Digital Color Fundus Photographs. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 185-195.	5.4	414
6	Fast Convolutional Neural Network Training Using Selective Data Sampling: Application to Hemorrhage Detection in Color Fundus Images. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 1273-1284.	5.4	335
7	Analysis of regularity in the EEG background activity of Alzheimer's disease patients with Approximate Entropy. <i>Clinical Neurophysiology</i> , 2005, 116, 1826-1834.	0.7	215
8	Location Sensitive Deep Convolutional Neural Networks for Segmentation of White Matter Hyperintensities. <i>Scientific Reports</i> , 2017, 7, 5110.	1.6	171
9	Retinal image analysis based on mixture models to detect hard exudates. <i>Medical Image Analysis</i> , 2009, 13, 650-658.	7.0	169
10	Automatic glaucoma classification using color fundus images based on convolutional neural networks and transfer learning. <i>Biomedical Optics Express</i> , 2019, 10, 892.	1.5	149
11	Observer Variability for Classification of Pulmonary Nodules on Low-Dose CT Images and Its Effect on Nodule Management. <i>Radiology</i> , 2015, 277, 863-871.	3.6	145
12	Neural network based detection of hard exudates in retinal images. <i>Computer Methods and Programs in Biomedicine</i> , 2009, 93, 9-19.	2.6	144
13	RETOUCH: The Retinal OCT Fluid Detection and Segmentation Benchmark and Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1858-1874.	5.4	139
14	A novel automatic image processing algorithm for detection of hard exudates based on retinal image analysis. <i>Medical Engineering and Physics</i> , 2008, 30, 350-357.	0.8	133
15	Deep learning approach for the detection and quantification of intraretinal cystoid fluid in multivendor optical coherence tomography. <i>Biomedical Optics Express</i> , 2018, 9, 1545.	1.5	124
16	Automated Assessment of COVID-19 Reporting and Data System and Chest CT Severity Scores in Patients Suspected of Having COVID-19 Using Artificial Intelligence. <i>Radiology</i> , 2021, 298, E18-E28.	3.6	116
17	Robust total retina thickness segmentation in optical coherence tomography images using convolutional neural networks. <i>Biomedical Optics Express</i> , 2017, 8, 3292.	1.5	106
18	Evaluation of a Computer-Aided Diagnosis System for Diabetic Retinopathy Screening on Public Data. , 2011, 52, 4866.		101

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19	An automated tuberculosis screening strategy combining X-ray-based computer-aided detection and clinical information. <i>Scientific Reports</i> , 2016, 6, 25265.	1.6	100
20	Automated Staging of Age-Related Macular Degeneration Using Optical Coherence Tomography. , 2017, 58, 2318.		93
21	A Novel Multiple-Instance Learning-Based Approach to Computer-Aided Detection of Tuberculosis on Chest X-Rays. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 179-192.	5.4	92
22	MACUSTAR: Development and Clinical Validation of Functional, Structural, and Patient-Reported Endpoints in Intermediate Age-Related Macular Degeneration. <i>Ophthalmologica</i> , 2019, 241, 61-72.	1.0	71
23	Evaluation of a deep learning system for the joint automated detection of diabetic retinopathy and age-related macular degeneration. <i>Acta Ophthalmologica</i> , 2020, 98, 368-377.	0.6	68
24	Variability, Regularity, and Complexity of Time Series Generated by Schizophrenic Patients and Control Subjects. <i>IEEE Transactions on Biomedical Engineering</i> , 2006, 53, 210-218.	2.5	65
25	Computer-Aided Lesion Diagnosis in Automated 3-D Breast Ultrasound Using Coronal Spiculation. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 1034-1042.	5.4	63
26	Automatic Detection of Tuberculosis in Chest Radiographs Using a Combination of Textural, Focal, and Shape Abnormality Analysis. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 2429-2442.	5.4	62
27	Detection of Hard Exudates in Retinal Images Using a Radial Basis Function Classifier. <i>Annals of Biomedical Engineering</i> , 2009, 37, 1448-1463.	1.3	48
28	Regional Analysis of Spontaneous MEG Rhythms in Patients with Alzheimer's Disease Using Spectral Entropies. <i>Annals of Biomedical Engineering</i> , 2008, 36, 141-152.	1.3	45
29	Contextual computer-aided detection: Improving bright lesion detection in retinal images and coronary calcification identification in CT scans. <i>Medical Image Analysis</i> , 2012, 16, 50-62.	7.0	41
30	A Deep Learning Model for Segmentation of Geographic Atrophy to Study Its Long-Term Natural History. <i>Ophthalmology</i> , 2020, 127, 1086-1096.	2.5	41
31	Clavicle segmentation in chest radiographs. <i>Medical Image Analysis</i> , 2012, 16, 1490-1502.	7.0	40
32	Automatic Drusen Quantification and Risk Assessment of Age-Related Macular Degeneration on Color Fundus Images. , 2013, 54, 3019.		40
33	Adversarial attack vulnerability of medical image analysis systems: Unexplored factors. <i>Medical Image Analysis</i> , 2021, 73, 102141.	7.0	35
34	Localized Energy-Based Normalization of Medical Images: Application to Chest Radiography. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 1965-1975.	5.4	34
35	Trustworthy AI: Closing the gap between development and integration of AI systems in ophthalmic practice. <i>Progress in Retinal and Eye Research</i> , 2022, 90, 101034.	7.3	34
36	Automatic Identification of Reticular Pseudodrusen Using Multimodal Retinal Image Analysis. <i>Investigative Ophthalmology and Visual Science</i> , 2015, 56, 633-639.	3.3	32

#	ARTICLE	IF	CITATIONS
37	Quantification of Key Retinal Features in Early and Late Age-Related Macular Degeneration Using Deep Learning. American Journal of Ophthalmology, 2021, 226, 1-12.	1.7	32
38	Automatic detection of pleural effusion in chest radiographs. Medical Image Analysis, 2016, 28, 22-32.	7.0	31
39	Automatic detection of red lesions in retinal images using a multilayer perceptron neural network. , 2008, 2008, 5425-8.		30
40	Feature Extraction and Selection for the Automatic Detection of Hard Exudates in Retinal Images. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4969-72.	0.5	28
41	Automatic detection of the foveal center in optical coherence tomography. Biomedical Optics Express, 2017, 8, 5160.	1.5	26
42	Suppression of Translucent Elongated Structures: Applications in Chest Radiography. IEEE Transactions on Medical Imaging, 2013, 32, 2099-2113.	5.4	25
43	White Matter and Gray Matter Segmentation in 4D Computed Tomography. Scientific Reports, 2017, 7, 119.	1.6	21
44	Genetic risk score has added value over initial clinical grading stage in predicting disease progression in age-related macular degeneration. Scientific Reports, 2019, 9, 6611.	1.6	21
45	Clinical study protocol for a low-interventional study in intermediate age-related macular degeneration developing novel clinical endpoints for interventional clinical trials with a regulatory and patient access intentionâ€”MACUSTAR. Trials, 2020, 21, 659.	0.7	21
46	Automatic Image Processing Algorithm to Detect Hard Exudates based on Mixture Models. , 2006, 2006, 4453-6.		17
47	Highly Variable Disease Courses in Siblings with Stargardt Disease. Ophthalmology, 2019, 126, 1712-1721.	2.5	16
48	Normalized emphysema scores on low dose CT: Validation as an imaging biomarker for mortality. PLoS ONE, 2017, 12, e0188902.	1.1	14
49	RETINAL HYPERREFLECTIVE FOCI IN TYPE 1 DIABETES MELLITUS. Retina, 2020, 40, 1565-1573.	1.0	14
50	Genetic Association Analysis of Drusen Progression. , 2016, 57, 2225.		12
51	Clinical Characteristics of Familial and Sporadic Age-Related Macular Degeneration: Differences and Similarities. , 2014, 55, 7085.		9
52	Automated COVID-19 Grading With Convolutional Neural Networks in Computed Tomography Scans: A Systematic Comparison. IEEE Transactions on Artificial Intelligence, 2022, 3, 129-138.	3.4	9
53	Automatic differentiation of color fundus images containing drusen or exudates using a contextual spatial pyramid approach. Biomedical Optics Express, 2016, 7, 709.	1.5	8
54	Fast and effective quantification of symmetry in medical images for pathology detection: Application to chest radiography. Medical Physics, 2017, 44, 2242-2256.	1.6	7

#	ARTICLE	IF	CITATIONS
55	Perceptually adapted method for optic disc detection on retinal fundus images. , 2013, , .		6
56	Foreign object detection and removal to improve automated analysis of chest radiographs. Medical Physics, 2013, 40, 071901.	1.6	6
57	Cavity contour segmentation in chest radiographs using supervised learning and dynamic programming. Medical Physics, 2014, 41, 071912.	1.6	5
58	Improving mass candidate detection in mammograms via feature maxima propagation and local feature selection. Medical Physics, 2014, 41, 081904.	1.6	3
59	Automatic age-related macular degeneration detection and staging. Proceedings of SPIE, 2013, , .	0.8	1