Anselmo Cardoso de Paiva

List of Publications by Year in Descending Order

134 papers	1,590 citations	21 h-index	36 g-index
158 ext. papers	2,097 ext. citations	3.5 avg, IF	4.96 L-index

#	Paper	IF	Citations
134	An automatic approach for heart segmentation in CT scans through image processing techniques and Concat-U-Net. *Expert Systems With Applications*, **2022**, 196, 116632	7.8	0
133	Kidney tumor segmentation from computed tomography images using DeepLabv3+ 2.5D model. *Expert Systems With Applications*, **2022**, 192, 116270	7.8	3
132	A deep learning method with residual blocks for automatic spinal cord segmentation in planning CT. *Biomedical Signal Processing and Control*, **2022**, 71, 103074	4.9	3
131	A cascade approach for automatic segmentation of cardiac structures in short-axis cine-MR images using deep neural networks. *Expert Systems With Applications*, **2022**, 197, 116704	7.8	0
130	A Two-Stage U-Net to Estimate the Cultivated Area of Plantations. *Lecture Notes in Computer Science*, **2022**, 346-357	0.9	
129	Defining Requirements for the Development of Useful and Usable Chatbots: An Analysis of Quality Attributes from Academy and Industry. *Lecture Notes in Computer Science*, **2022**, 479-493	0.9	
128	A Coarse to Fine Corneal Ulcer Segmentation Approach Using U-net and DexiNed in Chain. *Lecture Notes in Computer Science*, **2021**, 13-23	0.9	
127	Liver segmentation from computed tomography images using cascade deep learning.. *Computers in Biology and Medicine*, **2021**, 140, 105095	7	7
126	Automatic segmentation of retinal layers in OCT images with intermediate age-related macular degeneration using U-Net and DexiNed. *PLoS ONE*, **2021**, 16, e0251591	3.7	9
125	Surgical planning of horizontal strabismus using multiple output regression tree. *Computers in Biology and Medicine*, **2021**, 134, 104493	7	1
124	Automatic ocular version evaluation in images using random forest. *Expert Systems With Applications*, **2021**, 176, 114847	7.8	0
123	Bayesian convolutional neural network estimation for pediatric pneumonia detection and diagnosis. *Computer Methods and Programs in Biomedicine*, **2021**, 208, 106259	6.9	4
122	An automatic method for segmentation of liver lesions in computed tomography images using deep neural networks. *Expert Systems With Applications*, **2021**, 180, 115064	7.8	5
121	Forecasting of individual electricity consumption using Optimized Gradient Boosting Regression with Modified Particle Swarm Optimization. *Engineering Applications of Artificial Intelligence*, **2021**, 105, 104440	7.2	3
120	Automatic method for classifying COVID-19 patients based on chest X-ray images, using deep features and PSO-optimized XGBoost. *Expert Systems With Applications*, **2021**, 183, 115452	7.8	10
119	Superpixel-based deep convolutional neural networks and active contour model for automatic prostate segmentation on 3D MRI scans. *Medical and Biological Engineering and Computing*, **2020**, 58, 1947-1964	3.1	9
118	A Recommender for Resource Allocation in Compute Clouds Using Genetic Algorithms and SVR. *IEEE Latin America Transactions*, **2020**, 18, 1049-1056	0.7	2

117	Classification of breast masses in mammograms using geometric and topological feature maps and shape distribution. *Research on Biomedical Engineering*, **2020**, 36, 225-235	1.2	2
116	Breast cancer diagnosis from histopathological images using textural features and CBIR. *Artificial Intelligence in Medicine*, **2020**, 105, 101845	7.4	36
115	Identificaˆ Bo de barreiras fˆ Bicas em ambientes escolares. *Brazilian Journal of Development*, **2020**, 6, 33311-33324		
114	Evolving Convolutional Neural Networks for Glaucoma Diagnosis. *Brazilian Journal of Health Review* , **2020**, 3, 9224-9234	0	
113	Interferometer eye image classification for dry eye categorization using phylogenetic diversity indexes for texture analysis. *Computer Methods and Programs in Biomedicine*, **2020**, 188, 105269	6.9	3
112	Kidney segmentation from computed tomography images using deep neural network. *Computers in Biology and Medicine*, **2020**, 123, 103906	7	18
111	Esophagus segmentation from planning CT images using an atlas-based deep learning approach. *Computer Methods and Programs in Biomedicine*, **2020**, 197, 105685	6.9	15
110	Automatic Prostate Segmentation on 3D MRI Scans Using Convolutional Neural Networks with Residual Connections and Superpixels **2020**,		2
109	Tear Film Classification in Interferometry Eye Images Using Phylogenetic Diversity Indexes and Ripley's K Function. *IEEE Journal of Biomedical and Health Informatics*, **2020**, 24, 3491-3498	7.2	2
108	Spinal cord detection in planning CT for radiotherapy through adaptive template matching, IMSLIC and convolutional neural networks. *Computer Methods and Programs in Biomedicine*, **2019**, 170, 53-67	6.9	19
107	Pathophysiological mapping of tumor habitats in the breast in DCE-MRI using molecular texture descriptor. *Computers in Biology and Medicine*, **2019**, 106, 114-125	7	1
106	An automatic method for lung segmentation and reconstruction in chest X-ray using deep neural networks. *Computer Methods and Programs in Biomedicine*, **2019**, 177, 285-296	6.9	81
105	Temporal analysis of lung lesions through dynamic shape features. *Computers and Electrical Engineering*, **2019**, 74, 245-258	4.3	
104	Glaucoma diagnosis in fundus eye images using diversity indexes. *Multimedia Tools and Applications*, **2019**, 78, 12987-13004	2.5	3
103	Breast cancer detection in mammography using spatial diversity, geostatistics, and concave geometry. *Multimedia Tools and Applications*, **2019**, 78, 13005-13031	2.5	13
102	Diagnosis of breast tissue in mammography images based local feature descriptors. *Multimedia Tools and Applications*, **2019**, 78, 12961-12986	2.5	3
101	Optimized Deep Learning Architecture for the Diagnosis of Pneumonia Through Chest X-Rays. *Lecture Notes in Computer Science*, **2019**, 353-361	0.9	3
100	An ergonomic evaluation method using a mobile depth sensor and pose estimation **2019**,		2

99	Modeling of 3D Environments for Collaborative Immersive Applications Scenarios. *Advances in Intelligent Systems and Computing*, **2019**, 79-85	0.4	
98	Image Processing of Artworks for Construction of 3D Models Accessible to the Visually Impaired. *Advances in Intelligent Systems and Computing*, **2019**, 243-253	0.4	3
97	Mobile Application for Crowdmapping Accessibility Places and Generation of Accessible Routes. *Advances in Intelligent Systems and Computing*, **2019**, 934-942	0.4	2
96	Modified Quality Threshold Clustering for Temporal Analysis and Classification of Lung Lesions. *IEEE Transactions on Image Processing*, **2019**, 28, 1813-1823	8.7	6
95	Classification of patterns of benignity and malignancy based on CT using topology-based phylogenetic diversity index and convolutional neural network. *Pattern Recognition*, **2018**, 81, 200-212	7.7	27
94	Augmented visualization using homomorphic filtering and Haar-based natural markers for power systems substations. *Computers in Industry*, **2018**, 97, 67-75	11.6	2
93	Sclera Segmentation in Face Images Using Image Foresting Transform. *Lecture Notes in Computer Science*, **2018**, 229-236	0.9	2
92	Detection of mass regions in mammograms by bilateral analysis adapted to breast density using similarity indexes and convolutional neural networks. *Computer Methods and Programs in Biomedicine*, **2018**, 156, 191-207	6.9	39
91	Classification of breast tissues into mass and non-mass by means of the micro-genetic algorithm, phylogenetic trees, LBP and SVM. *Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization*, **2018**, 6, 315-330	0.9	2
90	Sign Language Recognition Based on 3D Convolutional Neural Networks. *Lecture Notes in Computer Science*, **2018**, 399-407	0.9	5
89	Segmentation of the Retinal Reflex in Brˆ □kner Test Images Using U-Net Convolutional Network. *Lecture Notes in Computer Science*, **2018**, 679-686	0.9	
88	Diagnosis of Non-Small Cell Lung Cancer Using Phylogenetic Diversity in Radiomics Context. *Lecture Notes in Computer Science*, **2018**, 598-604	0.9	1
87	Convolutional neural network-based PSO for lung nodule false positive reduction on CT images. *Computer Methods and Programs in Biomedicine*, **2018**, 162, 109-118	6.9	90
86	Evaluation of Melanoma Diagnosis using Deep Features **2018**,		13
85	Mixture of Dynamic Textures Applied to Temporal Analysis of Lung Lesions. *Journal of Computational and Theoretical Nanoscience*, **2018**, 15, 1839-1852	0.3	
84	Semivariogram and Semimadogram functions as descriptors for AMD diagnosis on SD-OCT topographic maps using Support Vector Machine. *BioMedical Engineering OnLine*, **2018**, 17, 160	4.1	3
83	Methodology Based on Texture, Color and Shape Features For Traffic Light Detection and Recognition. **2018**,		2
82	Glaucoma Diagnosis over Eye Fundus Image through Deep Features **2018**,		5

81	Classification of malignant and benign lung nodules using taxonomic diversity index and phylogenetic distance. *Medical and Biological Engineering and Computing*, **2018**, 56, 2125-2136	3.1	11
80	Lung-Nodule Classification Based on Computed Tomography Using Taxonomic Diversity Indexes and an SVM. *Journal of Signal Processing Systems*, **2017**, 87, 179-196	1.4	15
79	Statistical tools for the temporal analysis and classification of lung lesions. *Computer Methods and Programs in Biomedicine*, **2017**, 142, 55-72	6.9	4
78	Automatic mass detection in mammography images using particle swarm optimization and functional diversity indexes. *Multimedia Tools and Applications*, **2017**, 76, 19263-19289	2.5	9
77	Computer-Aided Diagnosis of Lung Nodules in Computed Tomography by Using Phylogenetic Diversity, Genetic Algorithm, and SVM. *Journal of Digital Imaging*, **2017**, 30, 812-822	5.3	18
76	Texture based on geostatistic for glaucoma diagnosis from fundus eye image. *Multimedia Tools and Applications*, **2017**, 76, 19173-19190	2.5	18
75	An Approach for Thyroid Nodule Analysis Using Thermographic Images. *Series in Bioengineering*, **2017**, 451-475	0.7	4
74	Lung nodules diagnosis based on evolutionary convolutional neural network. *Multimedia Tools and Applications*, **2017**, 76, 19039-19055	2.5	37
73	Application of virtual reality techniques to a birth simulation **2017**,		1
72	Semi-automatic methodology for augmented panorama development in industrial outdoor environments. *Advances in Engineering Software*, **2017**, 114, 282-294	3.6	5
71	Unsupervised detection of density changes through principal component analysis for lung lesion classification. *Multimedia Tools and Applications*, **2017**, 76, 18929-18954	2.5	3
70	Automatic method for quantitative automatic evaluation in dynamic renal scintilography images. *Multimedia Tools and Applications*, **2017**, 76, 19291-19315	2.5	0
69	3D shape analysis to reduce false positives for lung nodule detection systems. *Medical and Biological Engineering and Computing*, **2017**, 55, 1199-1213	3.1	16
68	Lung nodule classification using artificial crawlers, directional texture and support vector machine. *Expert Systems With Applications*, **2017**, 69, 176-188	7.8	43
67	Computer-aided diagnosis system for lung nodules based on computed tomography using shape analysis, a genetic algorithm, and SVM. *Medical and Biological Engineering and Computing*, **2017**, 55, 1129-1146	3.1	22
66	A Deep Approach for Handwritten Musical Symbols Recognition **2016**,		4
65	Lung nodule classification based on shape distributions **2016**,		1
64	Taxonomic indexes for differentiating malignancy of lung nodules on CT images. *Research on Biomedical Engineering*, **2016**, 32, 263-272	1.2	9

63	Texture analysis of masses malignant in mammograms images using a combined approach of diversity index and local binary patterns distribution. *Expert Systems With Applications*, **2016**, 66, 7-19	7.8	13
62	Automatic Detection of Masses in Mammograms Using Quality Threshold Clustering, Correlogram Function, and SVM. *Journal of Digital Imaging*, **2015**, 28, 323-37	5.3	17
61	Detection of masses in mammograms with adaption to breast density using genetic algorithm, phylogenetic trees, LBP and SVM. *Expert Systems With Applications*, **2015**, 42, 8911-8928	7.8	32
60	Computer-Aided Methodology for Syndromic Strabismus Diagnosis. *Journal of Digital Imaging*, **2015** , 28, 462-73	5.3	10
59	Surgical planning for horizontal strabismus using Support Vector Regression. *Computers in Biology and Medicine*, **2015**, 63, 178-86	7	10
58	Classification of breast regions as mass and non-mass based on digital mammograms using taxonomic indexes and SVM. *Computers in Biology and Medicine*, **2015**, 57, 42-53	7	55
57	Semi-automatic photograph tagging by combining context with content-based information. *Expert Systems With Applications*, **2015**, 42, 203-211	7.8	1
56	Management of Large Hydroelectric Reservoirs Surrounding Areas Using GIS and Remote Sensing. *Lecture Notes in Computer Science*, **2015**, 257-268	0.9	
55	An Immersive Virtual Reality Application for Collaborative Training of Power Systems Operators **2015**,		2
54	Automatic segmentation of masses in digital mammograms using particle swarm optimization and graph clustering **2015**,		2
53	Automatic detection of small lung nodules in 3D CT data using Gaussian mixture models, Tsallis entropy and SVM. *Engineering Applications of Artificial Intelligence*, **2014**, 36, 27-39	7.2	57
52	A New Database for Breast Research with Infrared Image. *Journal of Medical Imaging and Health Informatics*, **2014**, 4, 92-100	1.2	123
51	A Comparison of SVM Versus Naive-Bayes Techniques for Sentiment Analysis in Tweets **2014**,		11
50	Automatic detection of solitary lung nodules using quality threshold clustering, genetic algorithm and diversity index. *Artificial Intelligence in Medicine*, **2014**, 60, 165-77	7.4	71
49	Texture analysis of masses in digitized mammograms using Gleason and Menhinick Diversity Indexes. *Revista Brasileira De Engenharia Biomedica*, **2014**, 30, 35-46		2
48	AGITO: Virtual Reality Environment for Power Systems Substations Operators Training. *Lecture Notes in Computer Science*, **2014**, 113-123	0.9	7
47	Visualization of Power Systems Based on Panoramic Augmented Environments. *Lecture Notes in Computer Science*, **2014**, 175-184	0.9	2
46	A mass classification using spatial diversity approaches in mammography images for false positive reduction. *Expert Systems With Applications*, **2013**, 40, 7534-7543	7.8	22

45	Detection of masses based on asymmetric regions of digital bilateral mammograms using spatial description with variogram and cross-variogram functions. *Computers in Biology and Medicine*, **2013**, 43, 987-99	7	27
44	Computational methodology for automatic detection of strabismus in digital images through Hirschberg test. *Computers in Biology and Medicine*, **2012**, 42, 135-46	7	26
43	PhotoGeo: a photo digital library with spatial-temporal support and self-annotation. *Multimedia Tools and Applications*, **2012**, 59, 279-305	2.5	9
42	Study of geostatistical functions applied to automatic eye detection. *International Journal of Innovative Computing and Applications*, **2012**, 4, 201	0.4	
41	Lung Nodules Classification in CT Images Using Shannon and Simpson Diversity Indices and SVM. *Lecture Notes in Computer Science*, **2012**, 454-466	0.9	10
40	Classification of Breast Tissues in Mammographic Images in Mass and Non-mass Using McIntosh Diversity Index and SVM. *Lecture Notes in Computer Science*, **2012**, 482-494	0.9	3
39	Computer-Aided Detection and Diagnosis of Breast Cancer Using Machine Learning, Texture and Shape Features **2012**, 769-792		
38	Detection of masses in mammogram images using CNN, geostatistic functions and SVM. *Computers in Biology and Medicine*, **2011**, 41, 653-64	7	78
37	Automatic Eye Detection in Human Faces Using Geostatistical Functions and Support Vector Machines. *Lecture Notes in Computer Science*, **2011**, 151-160	0.9	
36	COMPARISON OF SUPPORT VECTOR MACHINES AND BAYESIAN NEURAL NETWORKS PERFORMANCE FOR BREAST TISSUES USING GEOSTATISTICAL FUNCTIONS IN MAMMOGRAPHIC IMAGES. *International Journal of Computational Intelligence and Applications*, **2010**, 09, 271-288	1.2	0
35	Detection of masses in mammographic images using geometry, Simpson's Diversity Index and SVM. *International Journal of Signal and Imaging Systems Engineering*, **2010**, 3, 40	3.5	12
34	Methodology for automatic detection of lung nodules in computerized tomography images. *Computer Methods and Programs in Biomedicine*, **2010**, 98, 1-14	6.9	70
33	Detection of Breast Masses in Mammogram Images Using Growing Neural Gas Algorithm and Ripley K Function. *Journal of Signal Processing Systems*, **2009**, 55, 77-90	1.4	22
32	Elements in hair of an exposed group. *Journal of Radioanalytical and Nuclear Chemistry*, **2009**, 279, 679-680	1.3	5
31	Classification of breast tissues using Moran's index and Geary's coefficient as texture signatures and SVM. *Computers in Biology and Medicine*, **2009**, 39, 1063-72	7	55
30	Classification of breast tissues using Getis-Ord statistics and support vector machine. *Intelligent Decision Technologies*, **2009**, 3, 197-205	0.7	
29	Detection of Masses in Digital Mammograms using K-Means and Support Vector Machine. *Electronic Letters on Computer Vision and Image Analysis*, **2009**, 8, 39	1.2	48
28	Detection of Masses in Mammographic Images Using Simpson Diversity Index in Circular Regions and SVM. *Lecture Notes in Computer Science*, **2009**, 540-553	0.9	3

27	Lung Nodules Classification in CT Images Using Simpson's Index, Geometrical Measures and One-Class SVM. *Lecture Notes in Computer Science*, **2009**, 810-822	0.9	6
26	Location Information Management in LBS Applications **2009**, 2450-2455		2
25	Web-Based GIS **2009**, 4053-4057		0
24	Diagnosis of solitary lung nodules using the local form of Ripley's K function applied to three-dimensional CT data. *Computer Methods and Programs in Biomedicine*, **2008**, 90, 230-9	6.9	9
23	Personalized Path Finding in Road Networks **2008**,		2
22	Expandindo e utilizando informaˆ ̃es de contexto para a sugestao de anotaˆ ̃es de fotografias digitais **2008**,		2
21	Produtividade e rendimento do cafeeiro nas cinco primeiras safras irrigado por pivˆ central em Lavras, MG. *Ciencia E Agrotecnologia*, **2008**, 32, 1832-1842	1.6	11
20	Application on Reinforcement Learning for Diagnosis Based on Medical Image **2008**,		3
19	Diagnosis of lung nodule using Moran's index and Geary's coefficient in computerized tomography images. *Pattern Analysis and Applications*, **2008**, 11, 89-99	2.3	17
18	Breast Tissues Classification Based on the Application of Geostatistical Features and Wavelet Transform **2007**,		2
17	Lung Structure Classification Using 3D Geometric Measurements and SVM. *Lecture Notes in Computer Science*, **2007**, 783-792	0.9	2
16	Classification of Breast Masses in Mammogram Images Using Ripley's K Function and Support Vector Machine. *Lecture Notes in Computer Science*, **2007**, 784-794	0.9	9
15	Classification of Breast Tissues in Mammogram Images Using Ripley's K Function and Support Vector Machine. *Lecture Notes in Computer Science*, **2007**, 899-910	0.9	4
14	Classification of Normal, Benign and Malignant Tissues Using Co-occurrence Matrix and Bayesian Neural Network in Mammographic Images **2006**,		7
13	A Progressive Transmission Scheme for Vector Maps in Low-Bandwidth Environments Based on Device Rendering. *Lecture Notes in Computer Science*, **2006**, 150-159	0.9	1
12	Semivariogram Applied for Classification of Benign and Malignant Tissues in Mammography. *Lecture Notes in Computer Science*, **2006**, 570-579	0.9	4
11	Diagnosis of Lung Nodule Using Reinforcement Learning and Geometric Measures. *Lecture Notes in Computer Science*, **2005**, 295-304	0.9	
10	Semivariogram and SGLDM Methods Comparison for the Diagnosis of Solitary Lung Nodule. *Lecture Notes in Computer Science*, **2005**, 479-486	0.9	2

9	Comparison of FLDA, MLP and SVM in Diagnosis of Lung Nodule. *Lecture Notes in Computer Science*, **2005**, 285-294	0.9	2
8	Using Open Source GIS in e-Government Applications. *Lecture Notes in Computer Science*, **2004**, 418-421	0.9	4
7	A multiresolution approach for Internet GIS applications **2004**,		6
6	On Performance Evaluation of Web GIS Applications		2
5	Migratool: Towards a Web-Based Spatial Database Migration Tool		2
4	Computer-Aided Detection and Diagnosis of Breast Cancer Using Machine Learning, Texture and Shape Features. *Advances in Bioinformatics and Biomedical Engineering Book Series*,27-53	0.4	
3	Infrastructures for Development of Context-Aware Mobile Applications1104-1118		
2	IDENTIFICAˆ □□O DE BARREIRAS Fˆ SICAS EM AMBIENTES CONSTRUˆ DOS		1
1	Heart segmentation in planning CT using 2.5D U-Net++ with attention gate. *Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization*,1-9	0.9	1