

Anselmo Cardoso de Paiva

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A New Database for Breast Research with Infrared Image. <i>Journal of Medical Imaging and Health Informatics</i> , 2014 , 4, 92-100	1.2	123
133	Convolutional neural network-based PSO for lung nodule false positive reduction on CT images. <i>Computer Methods and Programs in Biomedicine</i> , 2018 , 162, 109-118	6.9	90
132	An automatic method for lung segmentation and reconstruction in chest X-ray using deep neural networks. <i>Computer Methods and Programs in Biomedicine</i> , 2019 , 177, 285-296	6.9	81
131	Detection of masses in mammogram images using CNN, geostatistic functions and SVM. <i>Computers in Biology and Medicine</i> , 2011 , 41, 653-64	7	78
130	Automatic detection of solitary lung nodules using quality threshold clustering, genetic algorithm and diversity index. <i>Artificial Intelligence in Medicine</i> , 2014 , 60, 165-77	7.4	71
129	Methodology for automatic detection of lung nodules in computerized tomography images. <i>Computer Methods and Programs in Biomedicine</i> , 2010 , 98, 1-14	6.9	70
128	Automatic detection of small lung nodules in 3D CT data using Gaussian mixture models, Tsallis entropy and SVM. <i>Engineering Applications of Artificial Intelligence</i> , 2014 , 36, 27-39	7.2	57
127	Classification of breast regions as mass and non-mass based on digital mammograms using taxonomic indexes and SVM. <i>Computers in Biology and Medicine</i> , 2015 , 57, 42-53	7	55
126	Classification of breast tissues using Moran's index and Geary's coefficient as texture signatures and SVM. <i>Computers in Biology and Medicine</i> , 2009 , 39, 1063-72	7	55
125	Detection of Masses in Digital Mammograms using K-Means and Support Vector Machine. <i>Electronic Letters on Computer Vision and Image Analysis</i> , 2009 , 8, 39	1.2	48
124	Lung nodule classification using artificial crawlers, directional texture and support vector machine. <i>Expert Systems With Applications</i> , 2017 , 69, 176-188	7.8	43
123	Detection of mass regions in mammograms by bilateral analysis adapted to breast density using similarity indexes and convolutional neural networks. <i>Computer Methods and Programs in Biomedicine</i> , 2018 , 156, 191-207	6.9	39
122	Lung nodules diagnosis based on evolutionary convolutional neural network. <i>Multimedia Tools and Applications</i> , 2017 , 76, 19039-19055	2.5	37
121	Breast cancer diagnosis from histopathological images using textural features and CBIR. <i>Artificial Intelligence in Medicine</i> , 2020 , 105, 101845	7.4	36
120	Detection of masses in mammograms with adaption to breast density using genetic algorithm, phylogenetic trees, LBP and SVM. <i>Expert Systems With Applications</i> , 2015 , 42, 8911-8928	7.8	32
119	Classification of patterns of benignity and malignancy based on CT using topology-based phylogenetic diversity index and convolutional neural network. <i>Pattern Recognition</i> , 2018 , 81, 200-212	7.7	27
118	Detection of masses based on asymmetric regions of digital bilateral mammograms using spatial description with variogram and cross-variogram functions. <i>Computers in Biology and Medicine</i> , 2013 , 43, 987-99	7	27

117	Computational methodology for automatic detection of strabismus in digital images through Hirschberg test. <i>Computers in Biology and Medicine</i> , 2012 , 42, 135-46	7	26
116	A mass classification using spatial diversity approaches in mammography images for false positive reduction. <i>Expert Systems With Applications</i> , 2013 , 40, 7534-7543	7.8	22
115	Computer-aided diagnosis system for lung nodules based on computed tomography using shape analysis, a genetic algorithm, and SVM. <i>Medical and Biological Engineering and Computing</i> , 2017 , 55, 1129-1146	3.1	22
114	Detection of Breast Masses in Mammogram Images Using Growing Neural Gas Algorithm and Ripley's K Function. <i>Journal of Signal Processing Systems</i> , 2009 , 55, 77-90	1.4	22
113	Spinal cord detection in planning CT for radiotherapy through adaptive template matching, IMSLIC and convolutional neural networks. <i>Computer Methods and Programs in Biomedicine</i> , 2019 , 170, 53-67	6.9	19
112	Computer-Aided Diagnosis of Lung Nodules in Computed Tomography by Using Phylogenetic Diversity, Genetic Algorithm, and SVM. <i>Journal of Digital Imaging</i> , 2017 , 30, 812-822	5.3	18
111	Texture based on geostatistic for glaucoma diagnosis from fundus eye image. <i>Multimedia Tools and Applications</i> , 2017 , 76, 19173-19190	2.5	18
110	Kidney segmentation from computed tomography images using deep neural network. <i>Computers in Biology and Medicine</i> , 2020 , 123, 103906	7	18
109	Automatic Detection of Masses in Mammograms Using Quality Threshold Clustering, Correlogram Function, and SVM. <i>Journal of Digital Imaging</i> , 2015 , 28, 323-37	5.3	17
108	Diagnosis of lung nodule using Moran's index and Geary's coefficient in computerized tomography images. <i>Pattern Analysis and Applications</i> , 2008 , 11, 89-99	2.3	17
107	3D shape analysis to reduce false positives for lung nodule detection systems. <i>Medical and Biological Engineering and Computing</i> , 2017 , 55, 1199-1213	3.1	16
106	Lung-Nodule Classification Based on Computed Tomography Using Taxonomic Diversity Indexes and an SVM. <i>Journal of Signal Processing Systems</i> , 2017 , 87, 179-196	1.4	15
105	Esophagus segmentation from planning CT images using an atlas-based deep learning approach. <i>Computer Methods and Programs in Biomedicine</i> , 2020 , 197, 105685	6.9	15
104	Evaluation of Melanoma Diagnosis using Deep Features 2018 ,		13
103	Breast cancer detection in mammography using spatial diversity, geostatistics, and concave geometry. <i>Multimedia Tools and Applications</i> , 2019 , 78, 13005-13031	2.5	13
102	Texture analysis of masses malignant in mammograms images using a combined approach of diversity index and local binary patterns distribution. <i>Expert Systems With Applications</i> , 2016 , 66, 7-19	7.8	13
101	Detection of masses in mammographic images using geometry, Simpson's Diversity Index and SVM. <i>International Journal of Signal and Imaging Systems Engineering</i> , 2010 , 3, 40	3.5	12
100	A Comparison of SVM Versus Naive-Bayes Techniques for Sentiment Analysis in Tweets 2014 ,		11

99	Produtividade e rendimento do cafeeiro nas cinco primeiras safras irrigado por pivô central em Lavras, MG. <i>Ciencia E Agrotecnologia</i> , 2008 , 32, 1832-1842	1.6	11
98	Classification of malignant and benign lung nodules using taxonomic diversity index and phylogenetic distance. <i>Medical and Biological Engineering and Computing</i> , 2018 , 56, 2125-2136	3.1	11
97	Computer-Aided Methodology for Syndromic Strabismus Diagnosis. <i>Journal of Digital Imaging</i> , 2015 , 28, 462-73	5.3	10
96	Surgical planning for horizontal strabismus using Support Vector Regression. <i>Computers in Biology and Medicine</i> , 2015 , 63, 178-86	7	10
95	Lung Nodules Classification in CT Images Using Shannon and Simpson Diversity Indices and SVM. <i>Lecture Notes in Computer Science</i> , 2012 , 454-466	0.9	10
94	Automatic method for classifying COVID-19 patients based on chest X-ray images, using deep features and PSO-optimized XGBoost. <i>Expert Systems With Applications</i> , 2021 , 183, 115452	7.8	10
93	Automatic mass detection in mammography images using particle swarm optimization and functional diversity indexes. <i>Multimedia Tools and Applications</i> , 2017 , 76, 19263-19289	2.5	9
92	Superpixel-based deep convolutional neural networks and active contour model for automatic prostate segmentation on 3D MRI scans. <i>Medical and Biological Engineering and Computing</i> , 2020 , 58, 1947-1964	3.1	9
91	PhotoGeo: a photo digital library with spatial-temporal support and self-annotation. <i>Multimedia Tools and Applications</i> , 2012 , 59, 279-305	2.5	9
90	Diagnosis of solitary lung nodules using the local form of Ripley's K function applied to three-dimensional CT data. <i>Computer Methods and Programs in Biomedicine</i> , 2008 , 90, 230-9	6.9	9
89	Classification of Breast Masses in Mammogram Images Using Ripley's K Function and Support Vector Machine. <i>Lecture Notes in Computer Science</i> , 2007 , 784-794	0.9	9
88	Automatic segmentation of retinal layers in OCT images with intermediate age-related macular degeneration using U-Net and DexiNed. <i>PLoS ONE</i> , 2021 , 16, e0251591	3.7	9
87	Taxonomic indexes for differentiating malignancy of lung nodules on CT images. <i>Research on Biomedical Engineering</i> , 2016 , 32, 263-272	1.2	9
86	Classification of Normal, Benign and Malignant Tissues Using Co-occurrence Matrix and Bayesian Neural Network in Mammographic Images 2006 ,		7
85	Liver segmentation from computed tomography images using cascade deep learning.. <i>Computers in Biology and Medicine</i> , 2021 , 140, 105095	7	7
84	AGITO: Virtual Reality Environment for Power Systems Substations Operators Training. <i>Lecture Notes in Computer Science</i> , 2014 , 113-123	0.9	7
83	A multiresolution approach for Internet GIS applications 2004 ,		6
82	Lung Nodules Classification in CT Images Using Simpson's Index, Geometrical Measures and One-Class SVM. <i>Lecture Notes in Computer Science</i> , 2009 , 810-822	0.9	6

81	Modified Quality Threshold Clustering for Temporal Analysis and Classification of Lung Lesions. <i>IEEE Transactions on Image Processing</i> , 2019 , 28, 1813-1823	8.7	6
80	Sign Language Recognition Based on 3D Convolutional Neural Networks. <i>Lecture Notes in Computer Science</i> , 2018 , 399-407	0.9	5
79	Semi-automatic methodology for augmented panorama development in industrial outdoor environments. <i>Advances in Engineering Software</i> , 2017 , 114, 282-294	3.6	5
78	Elements in hair of an exposed group. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2009 , 279, 679-680	0.9	5
77	Glaucoma Diagnosis over Eye Fundus Image through Deep Features 2018 ,		5
76	An automatic method for segmentation of liver lesions in computed tomography images using deep neural networks. <i>Expert Systems With Applications</i> , 2021 , 180, 115064	7.8	5
75	Statistical tools for the temporal analysis and classification of lung lesions. <i>Computer Methods and Programs in Biomedicine</i> , 2017 , 142, 55-72	6.9	4
74	An Approach for Thyroid Nodule Analysis Using Thermographic Images. <i>Series in Bioengineering</i> , 2017 , 451-475	0.7	4
73	A Deep Approach for Handwritten Musical Symbols Recognition 2016 ,		4
72	Using Open Source GIS in e-Government Applications. <i>Lecture Notes in Computer Science</i> , 2004 , 418-421	0.9	4
71	Classification of Breast Tissues in Mammogram Images Using Ripley's K Function and Support Vector Machine. <i>Lecture Notes in Computer Science</i> , 2007 , 899-910	0.9	4
70	Bayesian convolutional neural network estimation for pediatric pneumonia detection and diagnosis. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 208, 106259	6.9	4
69	Semivariogram Applied for Classification of Benign and Malignant Tissues in Mammography. <i>Lecture Notes in Computer Science</i> , 2006 , 570-579	0.9	4
68	Glaucoma diagnosis in fundus eye images using diversity indexes. <i>Multimedia Tools and Applications</i> , 2019 , 78, 12987-13004	2.5	3
67	Diagnosis of breast tissue in mammography images based local feature descriptors. <i>Multimedia Tools and Applications</i> , 2019 , 78, 12961-12986	2.5	3
66	Optimized Deep Learning Architecture for the Diagnosis of Pneumonia Through Chest X-Rays. <i>Lecture Notes in Computer Science</i> , 2019 , 353-361	0.9	3
65	Unsupervised detection of density changes through principal component analysis for lung lesion classification. <i>Multimedia Tools and Applications</i> , 2017 , 76, 18929-18954	2.5	3
64	Application on Reinforcement Learning for Diagnosis Based on Medical Image 2008 ,		3

63	Kidney tumor segmentation from computed tomography images using DeepLabv3+ 2.5D model. <i>Expert Systems With Applications</i> , 2022 , 192, 116270	7.8	3
62	Image Processing of Artworks for Construction of 3D Models Accessible to the Visually Impaired. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 243-253	0.4	3
61	Detection of Masses in Mammographic Images Using Simpson's Diversity Index in Circular Regions and SVM. <i>Lecture Notes in Computer Science</i> , 2009 , 540-553	0.9	3
60	Classification of Breast Tissues in Mammographic Images in Mass and Non-mass Using McIntosh's Diversity Index and SVM. <i>Lecture Notes in Computer Science</i> , 2012 , 482-494	0.9	3
59	Interferometer eye image classification for dry eye categorization using phylogenetic diversity indexes for texture analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2020 , 188, 105269	6.9	3
58	Semivariogram and Semivariogram functions as descriptors for AMD diagnosis on SD-OCT topographic maps using Support Vector Machine. <i>BioMedical Engineering OnLine</i> , 2018 , 17, 160	4.1	3
57	Forecasting of individual electricity consumption using Optimized Gradient Boosting Regression with Modified Particle Swarm Optimization. <i>Engineering Applications of Artificial Intelligence</i> , 2021 , 105, 104440	7.2	3
56	A deep learning method with residual blocks for automatic spinal cord segmentation in planning CT. <i>Biomedical Signal Processing and Control</i> , 2022 , 71, 103074	4.9	3
55	A Recommender for Resource Allocation in Compute Clouds Using Genetic Algorithms and SVR. <i>IEEE Latin America Transactions</i> , 2020 , 18, 1049-1056	0.7	2
54	Classification of breast masses in mammograms using geometric and topological feature maps and shape distribution. <i>Research on Biomedical Engineering</i> , 2020 , 36, 225-235	1.2	2
53	Augmented visualization using homomorphic filtering and Haar-based natural markers for power systems substations. <i>Computers in Industry</i> , 2018 , 97, 67-75	11.6	2
52	Sclera Segmentation in Face Images Using Image Foresting Transform. <i>Lecture Notes in Computer Science</i> , 2018 , 229-236	0.9	2
51	Classification of breast tissues into mass and non-mass by means of the micro-genetic algorithm, phylogenetic trees, LBP and SVM. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2018 , 6, 315-330	0.9	2
50	An ergonomic evaluation method using a mobile depth sensor and pose estimation 2019 ,		2
49	An Immersive Virtual Reality Application for Collaborative Training of Power Systems Operators 2015 ,		2
48	Automatic segmentation of masses in digital mammograms using particle swarm optimization and graph clustering 2015 ,		2
47	Personalized Path Finding in Road Networks 2008 ,		2
46	Expandindo e utilizando informa ^ç ões de contexto para a sugestao de anota ^ç ões de fotografias digitais 2008 ,		2

45	Breast Tissues Classification Based on the Application of Geostatistical Features and Wavelet Transform 2007 ,		2
44	On Performance Evaluation of Web GIS Applications		2
43	Migratool: Towards a Web-Based Spatial Database Migration Tool		2
42	Semivariogram and SGLDM Methods Comparison for the Diagnosis of Solitary Lung Nodule. <i>Lecture Notes in Computer Science</i> , 2005 , 479-486	0.9	2
41	Comparison of FLDA, MLP and SVM in Diagnosis of Lung Nodule. <i>Lecture Notes in Computer Science</i> , 2005 , 285-294	0.9	2
40	Texture analysis of masses in digitized mammograms using Gleason and Menhinick Diversity Indexes. <i>Revista Brasileira De Engenharia Biomedica</i> , 2014 , 30, 35-46		2
39	Lung Structure Classification Using 3D Geometric Measurements and SVM. <i>Lecture Notes in Computer Science</i> , 2007 , 783-792	0.9	2
38	Mobile Application for Crowdmapping Accessibility Places and Generation of Accessible Routes. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 934-942	0.4	2
37	Location Information Management in LBS Applications 2009 , 2450-2455		2
36	Visualization of Power Systems Based on Panoramic Augmented Environments. <i>Lecture Notes in Computer Science</i> , 2014 , 175-184	0.9	2
35	Automatic Prostate Segmentation on 3D MRI Scans Using Convolutional Neural Networks with Residual Connections and Superpixels 2020 ,		2
34	Tear Film Classification in Interferometry Eye Images Using Phylogenetic Diversity Indexes and Ripley's K Function. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020 , 24, 3491-3498	7.2	2
33	Methodology Based on Texture, Color and Shape Features For Traffic Light Detection and Recognition. 2018 ,		2
32	Pathophysiological mapping of tumor habitats in the breast in DCE-MRI using molecular texture descriptor. <i>Computers in Biology and Medicine</i> , 2019 , 106, 114-125	7	1
31	Semi-automatic photograph tagging by combining context with content-based information. <i>Expert Systems With Applications</i> , 2015 , 42, 203-211	7.8	1
30	Lung nodule classification based on shape distributions 2016 ,		1
29	Diagnosis of Non-Small Cell Lung Cancer Using Phylogenetic Diversity in Radiomics Context. <i>Lecture Notes in Computer Science</i> , 2018 , 598-604	0.9	1
28	Application of virtual reality techniques to a birth simulation 2017 ,		1

27	A Progressive Transmission Scheme for Vector Maps in Low-Bandwidth Environments Based on Device Rendering. <i>Lecture Notes in Computer Science</i> , 2006 , 150-159	0.9	1
26	IDENTIFICAÇÃO DE BARREIRAS FÍSICAS EM AMBIENTES CONSTRUÍDOS		1
25	Surgical planning of horizontal strabismus using multiple output regression tree. <i>Computers in Biology and Medicine</i> , 2021 , 134, 104493	7	1
24	Heart segmentation in planning CT using 2.5D U-Net++ with attention gate. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 1-9	0.9	1
23	Automatic method for quantitative automatic evaluation in dynamic renal scintigraphy images. <i>Multimedia Tools and Applications</i> , 2017 , 76, 19291-19315	2.5	0
22	COMPARISON OF SUPPORT VECTOR MACHINES AND BAYESIAN NEURAL NETWORKS PERFORMANCE FOR BREAST TISSUES USING GEOSTATISTICAL FUNCTIONS IN MAMMOGRAPHIC IMAGES. <i>International Journal of Computational Intelligence and Applications</i> , 2010 , 09, 271-288	1.2	0
21	An automatic approach for heart segmentation in CT scans through image processing techniques and Concat-U-Net. <i>Expert Systems With Applications</i> , 2022 , 196, 116632	7.8	0
20	Web-Based GIS 2009 , 4053-4057		0
19	Automatic ocular version evaluation in images using random forest. <i>Expert Systems With Applications</i> , 2021 , 176, 114847	7.8	0
18	A cascade approach for automatic segmentation of cardiac structures in short-axis cine-MR images using deep neural networks. <i>Expert Systems With Applications</i> , 2022 , 197, 116704	7.8	0
17	Temporal analysis of lung lesions through dynamic shape features. <i>Computers and Electrical Engineering</i> , 2019 , 74, 245-258	4.3	
16	Segmentation of the Retinal Reflex in Brückner Test Images Using U-Net Convolutional Network. <i>Lecture Notes in Computer Science</i> , 2018 , 679-686	0.9	
15	Management of Large Hydroelectric Reservoirs Surrounding Areas Using GIS and Remote Sensing. <i>Lecture Notes in Computer Science</i> , 2015 , 257-268	0.9	
14	Study of geostatistical functions applied to automatic eye detection. <i>International Journal of Innovative Computing and Applications</i> , 2012 , 4, 201	0.4	
13	Classification of breast tissues using Getis-Ord statistics and support vector machine. <i>Intelligent Decision Technologies</i> , 2009 , 3, 197-205	0.7	
12	Diagnosis of Lung Nodule Using Reinforcement Learning and Geometric Measures. <i>Lecture Notes in Computer Science</i> , 2005 , 295-304	0.9	
11	A Coarse to Fine Corneal Ulcer Segmentation Approach Using U-net and DexiNed in Chain. <i>Lecture Notes in Computer Science</i> , 2021 , 13-23	0.9	
10	Identificação de barreiras físicas em ambientes escolares. <i>Brazilian Journal of Development</i> , 2020 , 6, 33311-33324		

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| 9 | Computer-Aided Detection and Diagnosis of Breast Cancer Using Machine Learning, Texture and Shape Features. <i>Advances in Bioinformatics and Biomedical Engineering Book Series</i> , 27-53 | 0.4 |
| 8 | Infrastructures for Development of Context-Aware Mobile Applications 1104-1118 | |
| 7 | Modeling of 3D Environments for Collaborative Immersive Applications Scenarios. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 79-85 | 0.4 |
| 6 | Mixture of Dynamic Textures Applied to Temporal Analysis of Lung Lesions. <i>Journal of Computational and Theoretical Nanoscience</i> , 2018 , 15, 1839-1852 | 0.3 |
| 5 | Evolving Convolutional Neural Networks for Glaucoma Diagnosis. <i>Brazilian Journal of Health Review</i> , 2020 , 3, 9224-9234 | 0 |
| 4 | Automatic Eye Detection in Human Faces Using Geostatistical Functions and Support Vector Machines. <i>Lecture Notes in Computer Science</i> , 2011 , 151-160 | 0.9 |
| 3 | Computer-Aided Detection and Diagnosis of Breast Cancer Using Machine Learning, Texture and Shape Features 2012 , 769-792 | |
| 2 | A Two-Stage U-Net to Estimate the Cultivated Area of Plantations. <i>Lecture Notes in Computer Science</i> , 2022 , 346-357 | 0.9 |
| 1 | Defining Requirements for the Development of Useful and Usable Chatbots: An Analysis of Quality Attributes from Academy and Industry. <i>Lecture Notes in Computer Science</i> , 2022 , 479-493 | 0.9 |