Anselmo Cardoso de Paiva

List of Publications by Year
in descending order

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155	2,621	218592	223716
papers	citations	26 h-index	46 g-index

158	158	158	2219
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A New Database for Breast Research with Infrared Image. Journal of Medical Imaging and Health Informatics, 2014, 4, 92-100.	0.2	207
2	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.	2.6	183
3	Convolutional neural network-based PSO for lung nodule false positive reduction on CT images. Computer Methods and Programs in Biomedicine, 2018, 162, 109-118.	2.6	132
4	Detection of masses in mammogram images using CNN, geostatistic functions and SVM. Computers in Biology and Medicine, 2011, 41, 653-664.	3.9	105
5	Automatic detection of solitary lung nodules using quality threshold clustering, genetic algorithm and diversity index. Artificial Intelligence in Medicine, 2014, 60, 165-177.	3.8	94
6	Methodology for automatic detection of lung nodules in computerized tomography images. Computer Methods and Programs in Biomedicine, 2010, 98, 1-14.	2.6	86
7	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.	4.3	80
8	Detection of Masses in Digital Mammograms using K-Means and Support Vector Machine. Electronic Letters on Computer Vision and Image Analysis, 2009, 8, 39.	0.5	75
9	Breast cancer diagnosis from histopathological images using textural features and CBIR. Artificial Intelligence in Medicine, 2020, 105, 101845.	3.8	72
10	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.	3.9	69
11	Classification of breast tissues using Moran's index and Geary's coefficient as texture signatures and SVM. Computers in Biology and Medicine, 2009, 39, 1063-1072.	3.9	67
12	Lung nodules diagnosis based on evolutionary convolutional neural network. Multimedia Tools and Applications, 2017, 76, 19039-19055.	2.6	59
13	Lung nodule classification using artificial crawlers, directional texture and support vector machine. Expert Systems With Applications, 2017, 69, 176-188.	4.4	56
14	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.	2.6	54
15	Kidney segmentation from computed tomography images using deep neural network. Computers in Biology and Medicine, 2020, 123, 103906.	3.9	54
16	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.	5.1	46
17	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.	4.4	40
18	Computational methodology for automatic detection of strabismus in digital images through Hirschberg test. Computers in Biology and Medicine, 2012, 42, 135-146.	3.9	37

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19	Kidney tumor segmentation from computed tomography images using DeepLabv3+ 2.5D model. Expert Systems With Applications, 2022, 192, 116270.	4.4	35
20	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, 987-999.	3.9	33
21	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.	1.6	33
22	Texture based on geostatistic for glaucoma diagnosis from fundus eye image. Multimedia Tools and Applications, 2017, 76, 19173-19190.	2.6	33
23	Detection of Breast Masses in Mammogram Images Using Growing Neural Gas Algorithm and Ripleyâ€™s K Function. Journal of Signal Processing Systems, 2009, 55, 77-90.	1.4	32
24	A mass classification using spatial diversity approaches in mammography images for false positive reduction. Expert Systems With Applications, 2013, 40, 7534-7543.	4.4	31
25	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.	1.6	31
26	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.	4.4	29
27	A Comparison of SVM Versus Naive-Bayes Techniques for Sentiment Analysis in Tweets. , 2014, , .		27
28	Automatic Detection of Masses in Mammograms Using Quality Threshold Clustering, Correlogram Function, and SVM. Journal of Digital Imaging, 2015, 28, 323-337.	1.6	25
29	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.	2.6	25
30	Esophagus segmentation from planning CT images using an atlas-based deep learning approach. Computer Methods and Programs in Biomedicine, 2020, 197, 105685.	2.6	24
31	Liver segmentation from computed tomography images using cascade deep learning. Computers in Biology and Medicine, 2022, 140, 105095.	3.9	24
32	3D shape analysis to reduce false positives for lung nodule detection systems. Medical and Biological Engineering and Computing, 2017, 55, 1199-1213.	1.6	23
33	Classification of malignant and benign lung nodules using taxonomic diversity index and phylogenetic distance. Medical and Biological Engineering and Computing, 2018, 56, 2125-2136.	1.6	21
34	Automatic segmentation of retinal layers in OCT images with intermediate age-related macular degeneration using U-Net and DexiNed. PLoS ONE, 2021, 16, e0251591.	1.1	21
35	Bayesian convolutional neural network estimation for pediatric pneumonia detection and diagnosis. Computer Methods and Programs in Biomedicine, 2021, 208, 106259.	2.6	21
36	An automatic method for segmentation of liver lesions in computed tomography images using deep neural networks. Expert Systems With Applications, 2021, 180, 115064.	4.4	21

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37	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.	4.4	20
38	Diagnosis of lung nodule using Moranâ€™s index and Gearyâ€™s coefficient in computerized tomography images. Pattern Analysis and Applications, 2008, 11, 89-99.	3.1	19
39	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	19
40	Breast cancer detection in mammography using spatial diversity, geostatistics, and concave geometry. Multimedia Tools and Applications, 2019, 78, 13005-13031.	2.6	18
41	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.	0.6	17
42	Computer-Aided Methodology for Syndromic Strabismus Diagnosis. Journal of Digital Imaging, 2015, 28, 462-473.	1.6	17
43	Taxonomic indexes for differentiating malignancy of lung nodules on CT images. Research on Biomedical Engineering, 2016, 32, 263-272.	1.5	16
44	Forecasting of individual electricity consumption using Optimized Gradient Boosting Regression with Modified Particle Swarm Optimization. Engineering Applications of Artificial Intelligence, 2021, 105, 104440.	4.3	16
45	Lung Nodules Classification in CT Images Using Shannon and Simpson Diversity Indices and SVM. Lecture Notes in Computer Science, 2012, , 454-466.	1.0	16
46	Evaluation of Melanoma Diagnosis using Deep Features. , 2018, , .		15
47	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.	1.6	15
48	Classification of Normal, Benign and Malignant Tissues Using Co-occurrence Matrix and Bayesian Neural Network in Mammographic Images. , 2006, , .		13
49	Surgical planning for horizontal strabismus using Support Vector Regression. Computers in Biology and Medicine, 2015, 63, 178-186.	3.9	13
50	Glaucoma diagnosis in fundus eye images using diversity indexes. Multimedia Tools and Applications, 2019, 78, 12987-13004.	2.6	13
51	Interferometer eye image classification for dry eye categorization using phylogenetic diversity indexes for texture analysis. Computer Methods and Programs in Biomedicine, 2020, 188, 105269.	2.6	13
52	Produtividade e rendimento do cafeeiro nas cinco primeiras safras irrigado por pivÃ´ central em Lavras, MG. Ciencia E Agrotecnologia, 2008, 32, 1832-1842.	1.5	12
53	PhotoGeo: a photo digital library with spatial-temporal support and self-annotation. Multimedia Tools and Applications, 2012, 59, 279-305.	2.6	12
54	Automatic mass detection in mammography images using particle swarm optimization and functional diversity indexes. Multimedia Tools and Applications, 2017, 76, 19263-19289.	2.6	12

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55	An automatic approach for heart segmentation in CT scans through image processing techniques and Concat-U-Net. Expert Systems With Applications, 2022, 196, 116632.	4.4	12
56	Glaucoma Diagnosis over Eye Fundus Image through Deep Features. , 2018, , .		11
57	Classification of Breast Masses in Mammogram Images Using Ripleyâ€™s K Function and Support Vector Machine. Lecture Notes in Computer Science, 2007, , 784-794.	1.0	11
58	Diagnosis of solitary lung nodules using the local form of Ripleyâ€™s K function applied to three-dimensional CT data. Computer Methods and Programs in Biomedicine, 2008, 90, 230-239.	2.6	10
59	Sign Language Recognition Based on 3D Convolutional Neural Networks. Lecture Notes in Computer Science, 2018, , 399-407.	1.0	10
60	A Recommender for Resource Allocation in Compute Clouds Using Genetic Algorithms and SVR. IEEE Latin America Transactions, 2020, 18, 1049-1056.	1.2	10
61	AGITO: Virtual Reality Environment for Power Systems Substations Operators Training. Lecture Notes in Computer Science, 2014, , 113-123.	1.0	10
62	Semivariogram and Semimadogram functions as descriptors for AMD diagnosis on SD-OCT topographic maps using Support Vector Machine. BioMedical Engineering OnLine, 2018, 17, 160.	1.3	9
63	Diagnosis of breast tissue in mammography images based local feature descriptors. Multimedia Tools and Applications, 2019, 78, 12961-12986.	2.6	9
64	Modified Quality Threshold Clustering for Temporal Analysis and Classification of Lung Lesions. IEEE Transactions on Image Processing, 2019, 28, 1813-1823.	6.0	9
65	Semivariogram Applied for Classification of Benign and Malignant Tissues in Mammography. Lecture Notes in Computer Science, 2006, , 570-579.	1.0	8
66	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.	4.4	8
67	An Approach for Thyroid Nodule Analysis Using Thermographic Images. Series in Bioengineering, 2017, , 451-475.	0.3	7
68	Optimized Deep Learning Architecture for the Diagnosis of Pneumonia Through Chest X-Rays. Lecture Notes in Computer Science, 2019, , 353-361.	1.0	7
69	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.	3.9	7
70	Lung Nodules Classification in CT Images Using Simpsonâ€™s Index, Geometrical Measures and One-Class SVM. Lecture Notes in Computer Science, 2009, , 810-822.	1.0	7
71	Using Open Source GIS in e-Government Applications. Lecture Notes in Computer Science, 2004, , 418-421.	1.0	6
72	A multiresolution approach for Internet GIS applications. , 2004, , .		6

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73	On Performance Evaluation of Web GIS Applications. , 0, , .		6
74	Breast Tissues Classification Based on the Application of Geostatistical Features and Wavelet Transform. , 2007, , .		6
75	Semi-automatic methodology for augmented panorama development in industrial outdoor environments. Advances in Engineering Software, 2017, 114, 282-294.	1.8	6
76	A deep learning method with residual blocks for automatic spinal cord segmentation in planning CT. Biomedical Signal Processing and Control, 2022, 71, 103074.	3.5	6
77	Expandindo e utilizando informaÃ§Ãµes de contexto para a sugestao de anotaÃ§Ãµes de fotografias digitais. , 2008, , .		5
78	Application on Reinforcement Learning for Diagnosis Based on Medical Image. , 0, , .		5
79	Elements in hair of an exposed group. Journal of Radioanalytical and Nuclear Chemistry, 2009, 279, 679-680.	0.7	5
80	A Deep Approach for Handwritten Musical Symbols Recognition. , 2016, , .		5
81	Statistical tools for the temporal analysis and classification of lung lesions. Computer Methods and Programs in Biomedicine, 2017, 142, 55-72.	2.6	5
82	Unsupervised detection of density changes through principal component analysis for lung lesion classification. Multimedia Tools and Applications, 2017, 76, 18929-18954.	2.6	5
83	Augmented visualization using homomorphic filtering and Haar-based natural markers for power systems substations. Computers in Industry, 2018, 97, 67-75.	5.7	5
84	Pathophysiological mapping of tumor habitats in the breast in DCE-MRI using molecular texture descriptor. Computers in Biology and Medicine, 2019, 106, 114-125.	3.9	5
85	Classification of breast masses in mammograms using geometric and topological feature maps and shape distribution. Research on Biomedical Engineering, 2020, 36, 225-235.	1.5	5
86	Classification of Breast Tissues in Mammogram Images Using Ripleyâ€™s K Function and Support Vector Machine. Lecture Notes in Computer Science, 2007, , 899-910.	1.0	5
87	Lung Structure Classification Using 3D Geometric Measurements and SVM. Lecture Notes in Computer Science, 2007, , 783-792.	1.0	5
88	Automatic segmentation of masses in digital mammograms using particle swarm optimization and graph clustering. , 2015, , .		4
89	Methodology Based on Texture, Color and Shape Features For Traffic Light Detection and Recognition. , 2018, , .		4
90	Image Processing of Artworks for Construction of 3D Models Accessible to the Visually Impaired. Advances in Intelligent Systems and Computing, 2019, , 243-253.	0.5	4

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91	Mobile Application for Crowdmapping Accessibility Places and Generation of Accessible Routes. Advances in Intelligent Systems and Computing, 2019, , 934-942.	0.5	4
92	Classification of Breast Tissues in Mammographic Images in Mass and Non-mass Using McIntoshâ€™s Diversity Index and SVM. Lecture Notes in Computer Science, 2012, , 482-494.	1.0	4
93	Semivariogram and SGLDM Methods Comparison for the Diagnosis of Solitary Lung Nodule. Lecture Notes in Computer Science, 2005, , 479-486.	1.0	3
94	Migratool: Towards a Web-Based Spatial Database Migration Tool. , 0, , .		3
95	Personalized Path Finding in Road Networks. , 2008, , .		3
96	Classification of breast tissues using Getis-Ord statistics and support vector machine. Intelligent Decision Technologies, 2009, 3, 197-205.	0.6	3
97	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.	0.6	3
98	An Immersive Virtual Reality Application for Collaborative Training of Power Systems Operators. , 2015, , .		3
99	Application of virtual reality techniques to a birth simulation. , 2017, , .		3
100	Diagnosis of Non-Small Cell Lung Cancer Using Phylogenetic Diversity in Radiomics Context. Lecture Notes in Computer Science, 2018, , 598-604.	1.0	3
101	Surgical planning of horizontal strabismus using multiple output regression tree. Computers in Biology and Medicine, 2021, 134, 104493.	3.9	3
102	Automatic ocular version evaluation in images using random forest. Expert Systems With Applications, 2021, 176, 114847.	4.4	3
103	Detection of Masses in Mammographic Images Using Simpsonâ€™s Diversity Index in Circular Regions and SVM. Lecture Notes in Computer Science, 2009, , 540-553.	1.0	3
104	Texture analysis of masses in digitized mammograms using Gleason and Menhinick Diversity Indexes. Revista Brasileira De Engenharia Biomedica, 2014, 30, 35-46.	0.3	3
105	Visualization of Power Systems Based on Panoramic Augmented Environments. Lecture Notes in Computer Science, 2014, , 175-184.	1.0	3
106	An Approach for Construction of Augmented Reality Systems using Natural Markers and Mobile Sensors in Industrial Fields. International Journal of Computers, Communications and Control, 2017, 12, 507.	1.2	3
107	Heart segmentation in planning CT using 2.5D U-Net++ with attention gate. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2023, 11, 317-325.	1.3	3
108	Comparison of FLDA, MLP and SVM in Diagnosis of Lung Nodule. Lecture Notes in Computer Science, 2005, , 285-294.	1.0	2

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109	Semi-automatic photograph tagging by combining context with content-based information. Expert Systems With Applications, 2015, 42, 203-211.	4.4	2
110	Automatic method for quantitative automatic evaluation in dynamic renal scintilography images. Multimedia Tools and Applications, 2017, 76, 19291-19315.	2.6	2
111	Sclera Segmentation in Face Images Using Image Foresting Transform. Lecture Notes in Computer Science, 2018, , 229-236.	1.0	2
112	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.	1.3	2
113	An ergonomic evaluation method using a mobile depth sensor and pose estimation. , 2019, , .		2
114	Automatic Prostate Segmentation on 3D MRI Scans Using Convolutional Neural Networks with Residual Connections and Superpixels. , 2020, , .		2
115	SegmentaÃ§Ã£o de coraÃ§Ã£o em tomografias computadorizadas utilizando atlas probabilÃstico e redes neurais convolucionais. , 0, , .		2
116	A context-aware solution to annotate people in mobile devices. , 2009, , .		2
117	Location Information Management in LBS Applications. , 2009, , 2450-2455.		2
118	Eye tracking como estratÃ©gia educacional inclusiva: avaliaÃ§Ã£o com estudantes com autismo. Revista Brasileira De Informâ^šÂ°tica Na Educaâ^šÃŸâ^šÂ£o, 0, 28, 1181-1204.	0.1	2
119	A Coarse toÂFine Corneal Ulcer Segmentation Approach Using U-net andÂDexiNed inÂChain. Lecture Notes in Computer Science, 2021, , 13-23.	1.0	2
120	Defining Requirements forÂtheÂDevelopment ofÂUseful andÂUsable Chatbots: An Analysis ofÂQuality Attributes fromÂAcademy andÂIndustry. Lecture Notes in Computer Science, 2022, , 479-493.	1.0	2
121	Diagnosis of Lung Nodule Using Reinforcement Learning and Geometric Measures. Lecture Notes in Computer Science, 2005, , 295-304.	1.0	1
122	Detection of Masses in Mammograms Using Cellular Neural Networks, Hidden Markov Models and Ripley's K Function. , 2009, , .		1
123	Content based mammography images retrieval using Ripley's K function. , 2009, , .		1
124	Lung nodule classification based on shape distributions. , 2016, , .		1
125	Automatic Ocular Alignment Evaluation for Strabismus Detection Using U-NET and ResNet Networks. , 2019, , .		1
126	Mask Overlaying: a Deep Learning Approach for Individual Optic Cup Segmentation from Fundus Image. , 2020, , .		1

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127	A Progressive Transmission Scheme for Vector Maps in Low-Bandwidth Environments Based on Device Rendering. Lecture Notes in Computer Science, 2006, , 150-159.	1.0	1
128	Web-Based GIS. , 2009, , 4053-4057.		1
129	Automatic Eye Detection in Human Faces Using Geostatistical Functions and Support Vector Machines. Lecture Notes in Computer Science, 2011, , 151-160.	1.0	1
130	IDENTIFICAÃ‡ÃƒO DE BARREIRAS FÃSICAS EM AMBIENTES CONSTRUÃDOS. , 0, , .		1
131	Evolving Convolutional Neural Networks for Glaucoma Diagnosis. Brazilian Journal of Health Review, 2020, 3, 9224-9234.	0.0	1
132	Classification of Histopathological Images of Penile Cancer using DenseNet and Transfer Learning. , 2022, , .		1
133	Detection and Delimitation of Natural Gas in Seismic Images using MLP-Mixer and U-Net. , 2022, , .		1
134	Using geoprocessing to monitor voltage disturbance in power systems. , 2010, , .		0
135	Study of geostatistical functions applied to automatic eye detection. International Journal of Innovative Computing and Applications, 2012, 4, 201.	0.2	0
136	Management of Large Hydroelectric Reservoirs Surrounding Areas Using GIS and Remote Sensing. Lecture Notes in Computer Science, 2015, , 257-268.	1.0	0
137	Tear Film Classification Using Phylogenetic Diversity Indexes as Texture Descriptor. , 2018, , .		0
138	Segmentation of the Retinal Reflex in BrÃ¼ckner Test Images Using U-Net Convolutional Network. Lecture Notes in Computer Science, 2018, , 679-686.	1.0	0
139	Temporal analysis of lung lesions through dynamic shape features. Computers and Electrical Engineering, 2019, 74, 245-258.	3.0	0
140	A Visualization Method for Power Systems using Geographical Views and Thiessen Polygons. , 2011, , .		0
141	A Visualization Method for Power Systems using Geographical Views and Thiessen Polygons. , 2012, , .		0
142	Computer-Aided Detection and Diagnosis of Breast Cancer Using Machine Learning, Texture and Shape Features. , 2012, , 769-792.		0
143	Diagnosis of Breast Regions through the Use of Ripley's K Function and SVM. , 2012, , .		0
144	Towards Metadata Analysis on Opinionated Content in Tweets. , 2016, , .		0

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145	Uso de Modelos Substitutos na OtimizaÃ§Ã£o de Estruturas de Material CompÃ³sitos. Anais Do ... Congresso Ibero-Latino-Americano De MÃ©todos Computacionais Em Engenharia, 0, , .	0.0	0
146	ACESSIBILIDADE EM AMBIENTES ESCOLARES: IDENTIFICAÃ‡ÃƒO DE BARREIRAS FÃSICAS. , 0, , .		0
147	Acessibilidade em Ambientes Escolares: IdentificaÃ§Ã£o de Barreiras FÃsicas. , 0, , .		0
148	Modeling of 3D Environments for Collaborative Immersive Applications Scenarios. Advances in Intelligent Systems and Computing, 2019, , 79-85.	0.5	0
149	Mixture of Dynamic Textures Applied to Temporal Analysis of Lung Lesions. Journal of Computational and Theoretical Nanoscience, 2018, 15, 1839-1852.	0.4	0
150	Automatic Prostate Lesions Detection on MR Images Based on the Ising Model. Journal of Computational and Theoretical Nanoscience, 2019, 16, 341-350.	0.4	0
151	IdentificaÃ§Ã£o de barreiras fÃsicas em ambientes escolares. Brazilian Journal of Development, 2020, 6, 33311-33324.	0.0	0
152	Inter Faces: processos de criaÃ§Ã£o para performance com Realidade Aumentada. Revista Brasileira De Estudos Da PresenÃ§a, 2020, 10, .	0.0	0
153	Computer-Aided Detection and Diagnosis of Breast Cancer Using Machine Learning, Texture and Shape Features. Advances in Bioinformatics and Biomedical Engineering Book Series, 0, , 27-53.	0.2	0
154	Infrastructures for Development of Context-Aware Mobile Applications. , 0, , 1104-1118.		0
155	ClassificaÃ§Ã£o de lesÃµes mamÃ¡rias das categorias 4 e 5 do padrÃ£o BI-RADSÂ® utilizando redes neurais. Research, Society and Development, 2022, 11, e26611931305.	0.0	0