

Aura Conci

List of Publications by Year in descending order

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Version: 2024-02-01

138
papers

2,037
citations

331538

21
h-index

315616

38
g-index

140
all docs

140
docs citations

140
times ranked

1679
citing authors

#	ARTICLE	IF	CITATIONS
1	U-Net Convolutional Neural Networks for breast IR imaging segmentation on frontal and lateral view. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2023, 11, 311-316.	1.3	6
2	Multivariate data driven prediction of COVID-19 dynamics: Towards new results with temperature, humidity and air quality data. <i>Environmental Research</i> , 2022, 204, 112348.	3.7	12
3	Combining Image Processing and Artificial Intelligence for Dental Image Analysis: Trends, Challenges, and Applications. <i>EAI/Springer Innovations in Communication and Computing</i> , 2022, , 75-105.	0.9	2
4	Using super-resolution generative adversarial network models and transfer learning to obtain high resolution digital periapical radiographs. <i>Computers in Biology and Medicine</i> , 2021, 129, 104139.	3.9	25
5	Computer Techniques for Detection of Breast Cancer and Follow Up Neoadjuvant Treatment. <i>Advances in Bioinformatics and Biomedical Engineering Book Series</i> , 2021, , 72-106.	0.2	2
6	Application of thermography in the diagnostic investigation of thyroid nodules. <i>Endocrine Journal</i> , 2021, 68, 573-581.	0.7	9
7	Hyperparameter Optimization for COVID-19 Pneumonia Diagnosis Based on Chest CT. <i>Sensors</i> , 2021, 21, 2174.	2.1	24
8	Do Radiographic Assessments of Periodontal Bone Loss Improve with Deep Learning Methods for Enhanced Image Resolution?. <i>Sensors</i> , 2021, 21, 2013.	2.1	17
9	Monitoring Breast Cancer Neoadjuvant Treatment using Thermographic Time Series. , 2021, , .		2
10	A Computational Study on the Role of Parameters for Identification of Thyroid Nodules by Infrared Images (and Comparison with Real Data). <i>Sensors</i> , 2021, 21, 4459.	2.1	3
11	Combining Genetic Algorithms and SVM for Breast Cancer Diagnosis Using Infrared Thermography. <i>Sensors</i> , 2021, 21, 4802.	2.1	26
12	Classification of Approximal Caries in Bitewing Radiographs Using Convolutional Neural Networks. <i>Sensors</i> , 2021, 21, 5192.	2.1	33
13	A hybrid methodology for breast screening and cancer diagnosis using thermography. <i>Computers in Biology and Medicine</i> , 2021, 135, 104553.	3.9	15
14	Pulmonary COVID-19: Learning Spatiotemporal Features Combining CNN and LSTM Networks for Lung Ultrasound Video Classification. <i>Sensors</i> , 2021, 21, 5486.	2.1	25
15	An approach based on image processing techniques to segment lung region in chest X-ray images. , 2021, , .		0
16	A dynamic decision model for diagnosis of dementia, Alzheimer's disease and Mild Cognitive Impairment. <i>Computers in Biology and Medicine</i> , 2020, 126, 104010.	3.9	8
17	ROI Extraction in Thermographic Breast Images Using Genetic Algorithms. , 2020, , .		3
18	Proposal and study of statistical features for string similarity computation and classification. <i>International Journal of Data Mining, Modelling and Management</i> , 2020, 12, 277.	0.1	0

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19	On the possibility of using temperature to aid in thyroid nodule investigation. Scientific Reports, 2020, 10, 21010.	1.6	8
20	A Computational Method to Assist the Diagnosis of Breast Disease Using Dynamic Thermography. Sensors, 2020, 20, 3866.	2.1	24
21	A Non Linear Registration Without the Use of the Brightness Constancy Hypothesis. , 2020, , .		1
22	Determining the Direction of Images Using Sum and Difference Histograms and Texture Descriptors. , 2020, , .		0
23	Automatic Sinusoidal Curves Detection in Borehole Images Using the Iterated Local Search Algorithm. , 2020, , .		3
24	A Computational Method for Breast Abnormality Detection Using Thermographs. , 2020, , .		6
25	ELEMENT: Multi-Modal Retinal Vessel Segmentation Based on a Coupled Region Growing and Machine Learning Approach. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3507-3519.	3.9	43
26	A Parallel Method for Anatomical Structure Segmentation based on 3D Seeded Region Growing. , 2020, , .		2
27	Proposal and study of statistical features for string similarity computation and classification. International Journal of Data Mining, Modelling and Management, 2020, 12, 277.	0.1	0
28	A Framework for Monitoring Patients with Alzheimerâ€™s and Other Dementias. , 2019, , .		1
29	Using Series of Infrared Data and SVM for Breast Normality Evaluation. , 2019, , .		3
30	Analysis of Static and Dynamic Infrared Images for Thyroid Nodules Investigation. , 2019, , .		4
31	Evaluation of Quantitative Features and Convolutional Neural Networks for Nodule Identification in Thyroid Thermographies. , 2019, , .		5
32	Classification of damages on borehole walls by images. AIP Conference Proceedings, 2019, , .	0.3	1
33	A Novel Approach for the Segmentation of Breast Thermal Images Combining Image Processing and Collective Intelligence. , 2019, , .		2
34	Modeling the behavior of human body tissues on penetration. AIP Conference Proceedings, 2018, , .	0.3	1
35	MATHEMATICAL MODELING OF THE INTERPLAY BETWEEN STRESS AND ANISOTROPIC GROWTH OF AVASCULAR TUMORS. Journal of Mechanics in Medicine and Biology, 2018, 18, 1850006.	0.3	3
36	Haptic forces and gamification on epidural anesthesia skill gain. Entertainment Computing, 2018, 25, 1-13.	1.8	16

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37	Monomodal Image Registration by Tensor Analysis: Going Beyond the Brightness Constancy Assumption. , 2018, , .		0
38	On Efficient Computation of Texture Descriptors from Sum and Difference Histograms Considering the Scales of Patterns. , 2018, , .		2
39	Comparing the Use of Sum and Difference Histograms and Gray Levels Occurrence Matrix for Texture Descriptors. , 2018, , .		5
40	Identification of thyroid nodules in infrared images by convolutional neural networks. , 2018, , .		20
41	A System for Aiding Diagnosis of Alzheimer's Disease and Related Disorders with an Adaptable Decision Model. , 2018, , .		1
42	Fractal triangular search: a metaheuristic for image content search. IET Image Processing, 2018, 12, 1475-1484.	1.4	7
43	Morphological classifiers. Pattern Recognition, 2018, 84, 82-96.	5.1	14
44	Machine learning in the prediction of cardiac epicardial and mediastinal fat volumes. Computers in Biology and Medicine, 2017, 89, 520-529.	3.9	34
45	The influence of anisotropic growth and geometry on the stress of solid tumors. International Journal of Engineering Science, 2017, 119, 40-49.	2.7	15
46	A virtual environment for breast exams practice with Haptics and gamification. , 2017, , .		3
47	Automated recognition of the pericardium contour on processed CT images using genetic algorithms. Computers in Biology and Medicine, 2017, 87, 38-45.	3.9	20
48	The role of malignant tissue on the thermal distribution of cancerous breast. Journal of Theoretical Biology, 2017, 426, 152-161.	0.8	22
49	Application of Infrared Images to Diagnosis and Modeling of Breast. Series in Bioengineering, 2017, , 159-173.	0.3	5
50	A Semi-Analytical Heterogeneous Model for Thermal Analysis of Cancerous Breasts. Series in Bioengineering, 2017, , 175-190.	0.3	1
51	An Approach for Thyroid Nodule Analysis Using Thermographic Images. Series in Bioengineering, 2017, , 451-475.	0.3	7
52	k-MS: A novel clustering algorithm based on morphological reconstruction. Pattern Recognition, 2017, 66, 392-403.	5.1	26
53	Improving a Bayesian Decision Model for Supporting Diagnosis of Alzheimer's Disease and Related Disorders. Lecture Notes in Computer Science, 2017, , 176-191.	1.0	3
54	A clinical decision support system for aiding diagnosis of Alzheimer's disease and related disorders in mobile devices. , 2017, , .		6

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55	Rational convolution roots of isobaric polynomials. Rocky Mountain Journal of Mathematics, 2017, 47, .	0.2	3
56	An approach for modeling three-phase piezoelectric composites. Mathematical Methods in the Applied Sciences, 2017, 40, 3230-3248.	1.2	8
57	Tumor growth modelling by cellular automata. Mathematics and Mechanics of Complex Systems, 2017, 5, 239-259.	0.5	12
58	Computer Aided Diagnosis for Breast Diseases Based on Infrared Images. , 2017, , .		10
59	A simple approach for biometrics: Finger-knuckle prints recognition based on a Sobel filter and similarity measures. , 2016, , .		7
60	Combining fuzzy experts' decisions fusion with linguistic summarization of mammograms for computer-aided breast diagnosis. , 2016, , .		0
61	Hybrid analysis for indicating patients with breast cancer using temperature time series. Computer Methods and Programs in Biomedicine, 2016, 130, 142-153.	2.6	49
62	Force modeling and gamification for Epidural Anesthesia training. , 2016, , .		4
63	An approach for automatic segmentation of thermal imaging in Computer Aided Diagnosis. IEEE Latin America Transactions, 2016, 14, 1856-1865.	1.2	20
64	A novel approach for the automated segmentation and volume quantification of cardiac fats on computed tomography. Computer Methods and Programs in Biomedicine, 2016, 123, 109-128.	2.6	54
65	Effective properties of regular elastic laminated shell composite. Composites Part B: Engineering, 2016, 87, 12-20.	5.9	21
66	AES cryptography in color image steganography by genetic algorithms. , 2015, , .		10
67	A context-aware middleware for medical image based reports. , 2015, , .		1
68	Automatic detection of injuries in mammograms using image analysis techniques. , 2015, , .		4
69	Segmentation of infrared images: A new technology for early detection of breast diseases. , 2015, , .		19
70	Towards the automated segmentation of epicardial and mediastinal fats: A multi-manufacturer approach using intersubject registration and random forest. , 2015, , .		8
71	Using wavelets on denoising infrared medical images. , 2015, , .		2
72	A new measure for comparing biomedical regions of interest in segmentation of digital images. Discrete Applied Mathematics, 2015, 197, 103-113.	0.5	18

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73	Automatic Segmentation and Analysis of Thermograms Using Texture Descriptors for Breast Cancer Detection. , 2015, , .		20
74	Cryptography and multiplicative arithmetic functions. , 2015, , .		2
75	A New Database for Breast Research with Infrared Image. Journal of Medical Imaging and Health Informatics, 2014, 4, 92-100.	0.2	207
76	Rician noise attenuation in the wavelet packet transformed domain for brain MRI. Integrated Computer-Aided Engineering, 2014, 21, 163-175.	2.5	48
77	A Bayesian network decision model for supporting the diagnosis of dementia, Alzheimer's disease and mild cognitive impairment. Computers in Biology and Medicine, 2014, 51, 140-158.	3.9	154
78	A Special Section on Healthcare and Biomechanical Applications. Journal of Medical Imaging and Health Informatics, 2014, 4, 76-78.	0.2	0
79	How Succolarity could be used as another fractal measure in image analysis. Telecommunication Systems, 2013, 52, 1643-1655.	1.6	69
80	A registration method for IR images: Preserving the thermal breast characteristics. , 2013, , .		2
81	On efficient use of wavelet in infrared image. , 2013, , .		1
82	Estimation of breast tumor thermal properties using infrared images. Signal Processing, 2013, 93, 2851-2863.	2.1	73
83	Breast thermography from an image processing viewpoint: A survey. Signal Processing, 2013, 93, 2785-2803.	2.1	154
84	Signal processing techniques for detection of breast diseases. Signal Processing, 2013, 93, 2783-2784.	2.1	3
85	Recognizing intensity degrees from expressions in 3D facial meshes. , 2013, , .		0
86	USO DE ONTOLOGIAS PARA A MANIPULAÇÃO DE IMAGENS RELACIONADAS AO CÂNCER DE MAMA. Jornal Brasileiro De TeleSaúde, 2013, 2, .	0.0	0
87	Combining approaches for early diagnosis of breast diseases using thermal imaging. International Journal of Innovative Computing and Applications, 2012, 4, 163.	0.2	15
88	Using adaptive background subtraction into a multi-level model for traffic surveillance. Integrated Computer-Aided Engineering, 2012, 19, 239-256.	2.5	10
89	A new approach to relatively short message steganography. , 2012, , .		0
90	The 17th International Conference on Systems, Signals and Image Processing (IWSSIP). Integrated Computer-Aided Engineering, 2011, 18, 1-1.	2.5	3

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91	Using graph cuts in GPUs for color based human skin segmentation. Integrated Computer-Aided Engineering, 2011, 18, 41-59.	2.5	7
92	Quantitative Ventricular Neuroendoscopy Performed on the Third Ventriculostomy: Anatomic Study. Operative Neurosurgery, 2011, 68, ons347-ons354.	0.4	4
93	Video-Based Distance Traffic Analysis: Application to Vehicle Tracking and Counting. Computing in Science and Engineering, 2011, 13, 38-45.	1.2	21
94	Scientific Image Processing. Computing in Science and Engineering, 2011, 13, 6-8.	1.2	0
95	A Multi-agent System for Dynamic Path Planning. , 2010, , .		2
96	Detección de Posición Angular de Embarcaciones, utilizando Técnicas de Visión Computacional y Redes Neuronales Artificiales. Informacion Tecnológica (discontinued), 2010, 21, .	0.1	4
97	On Using Lacunarity for Diagnosis of Breast Diseases Considering Thermal Images. , 2009, , .		3
98	A complete system for vehicle plate localization, segmentation and recognition in real life scene.. IEEE Latin America Transactions, 2009, 7, 497-506.	1.2	16
99	Automatic Discrimination between Printed and Handwritten Text in Documents. , 2009, , .		28
100	Influence of the Wavelet Family in the Compression-Denoising Technique on Synthetic and Natural Images. , 2009, , .		0
101	Use of Coherence Measurements between EEG and EMG on Identification of the Myoclonus Locus. , 2009, , .		0
102	An adaptative game loop architecture with automatic distribution of tasks between CPU and GPU. Computers in Entertainment, 2009, 7, 1-15.	1.2	12
103	A bidimensional data structure and spatial optimization for supermassive crowd simulation on GPU. Computers in Entertainment, 2009, 7, 1-15.	1.2	8
104	Real Time Feature-Based Parallel Morphing in GPU Applied to Texture-Based Animation. , 2009, , .		2
105	Intelligent automated brain image segmentation. International Journal of Innovative Computing and Applications, 2009, 2, 23.	0.2	4
106	An approach for enhancing fingerprint images using adaptive Gabor filter parameters. Pattern Recognition and Image Analysis, 2008, 18, 497-506.	0.6	6
107	Automatic texture segmentation based on k-means clustering and efficient calculation of co-occurrence features. , 2008, , .		6
108	Succolarity: Defining a method to calculate this fractal measure. , 2008, , .		28

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109	Introducing a new metric for automatic true color images granulometry. , 2008, , .		0
110	Image registration using genetic algorithms. , 2008, , .		12
111	Bhattacharyya probabilistic distance of the Dirichlet density and its application to Split-and-Merge image segmentation. , 2008, , .		2
112	Detecting shot transitions based on video content. , 2008, , .		2
113	Automatic Dynamic Task Distribution between CPU and GPU for Real-Time Systems. , 2008, , .		17
114	A new physics engine with automatic process distribution between CPU-GPU. , 2008, , .		16
115	A game loop architecture for the GPU used as a math coprocessor in real-time applications. Computers in Entertainment, 2008, 6, 1-19.	1.2	14
116	Clinical Dementia Rating Score Prediction Based on MR Segmentation. , 2008, , .		0
117	Texture Segmentation and Edge Location of Regions in Multiband Images. IEEE Latin America Transactions, 2007, 5, 184-191.	1.2	1
118	Parallel processing between GPU and CPU: Concepts in a game architecture. , 2007, , .		8
119	Characterizing the Lacunarity of Objects and Image Sets and Its Use as a Technique for the Analysis of Textural Patterns. Lecture Notes in Computer Science, 2006, , 208-219.	1.0	14
120	Fractal coding based on image local fractal dimension. Computational and Applied Mathematics, 2005, 24, .	1.3	9
121	Fractal coding based on image local fractal dimension. Computational and Applied Mathematics, 2005, 24, .	1.0	2
122	A system for real-time fabric inspection and industrial decision. , 2002, , .		13
123	Image mining by content. Expert Systems With Applications, 2002, 23, 377-383.	4.4	25
124	A Computer Vision Approach for Textile Inspection. Textile Reseach Journal, 2000, 70, 347-350.	1.1	24
125	A Comparison between Image-processing Approaches to Textile Inspection. Journal of the Textile Institute, 2000, 91, 317-323.	1.0	12
126	A study of the facial aging - a multidisciplinary approach. Revista Brasileira De Ciencias Mecanicas/Journal of the Brazilian Society of Mechanical Sciences, 2000, 22, 489-501.	0.1	4

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127	Investigaç�o para detecç�o autom�tica de falhas t�xteis. Revista Brasileira De Ciencias Mecanicas/Journal of the Brazilian Society of Mechanical Sciences, 1999, 21, 493-507.	0.1	3
128	A fractal image analysis system for fabric inspection based on a box-counting method. Computer Networks, 1998, 30, 1887-1895.	1.0	73
129	An Efficient Box-Counting Fractal Dimension Approach for Experimental Image Variation Characterization. , 1996, , 665-668.		3
130	Stiffness Matrix for Nonlinear Analysis of Thin-Walled Frames. Journal of Engineering Mechanics - ASCE, 1992, 118, 1859-1875.	1.6	7
131	Large displacement analysis of thin-walled beams with generic open section. International Journal for Numerical Methods in Engineering, 1992, 33, 2109-2127.	1.5	13
132	Natural approach for thin-walled beam-columns with elastic-plasticity. International Journal for Numerical Methods in Engineering, 1990, 29, 1653-1679.	1.5	21
133	Natural approach for geometric non-linear analysis of thin-walled frames. International Journal for Numerical Methods in Engineering, 1990, 30, 207-231.	1.5	43
134	Real-time collision detection and response. , 0, , .		4
135	A speech orientation animation system to disabled people. , 0, , .		1
136	Three-dimensional reconstruction of urban scenes from a single image. , 0, , .		1
137	Texture segmentation considering multiband, multiresolution and affine invariant roughness. , 0, , .		2
138	A Survey on Ontology-Based Systems to Support the Prospection, Diagnosis and Treatment of Breast Cancer. , 0, , .		3