

# 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	A New Database for Breast Research with Infrared Image. Journal of Medical Imaging and Health Informatics, 2014, 4, 92-100.	0.2	207
2	Breast thermography from an image processing viewpoint: A survey. Signal Processing, 2013, 93, 2785-2803.	2.1	154
3	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
4	A fractal image analysis system for fabric inspection based on a box-counting method. Computer Networks, 1998, 30, 1887-1895.	1.0	73
5	Estimation of breast tumor thermal properties using infrared images. Signal Processing, 2013, 93, 2851-2863.	2.1	73
6	How Succolarity could be used as another fractal measure in image analysis. Telecommunication Systems, 2013, 52, 1643-1655.	1.6	69
7	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
8	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
9	Rician noise attenuation in the wavelet packet transformed domain for brain MRI. Integrated Computer-Aided Engineering, 2014, 21, 163-175.	2.5	48
10	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
11	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
12	Machine learning in the prediction of cardiac epicardial and mediastinal fat volumes. Computers in Biology and Medicine, 2017, 89, 520-529.	3.9	34
13	Classification of Approximal Caries in Bitewing Radiographs Using Convolutional Neural Networks. Sensors, 2021, 21, 5192.	2.1	33
14	Succolarity: Defining a method to calculate this fractal measure. , 2008, , .		28
15	Automatic Discrimination between Printed and Handwritten Text in Documents. , 2009, , .		28
16	k-MS: A novel clustering algorithm based on morphological reconstruction. Pattern Recognition, 2017, 66, 392-403.	5.1	26
17	Combining Genetic Algorithms and SVM for Breast Cancer Diagnosis Using Infrared Thermography. Sensors, 2021, 21, 4802.	2.1	26
18	Image mining by content. Expert Systems With Applications, 2002, 23, 377-383.	4.4	25

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	A Computer Vision Approach for Textile Inspection. <i>Textile Reseach Journal</i> , 2000, 70, 347-350.	1.1	24
22	A Computational Method to Assist the Diagnosis of Breast Disease Using Dynamic Thermography. <i>Sensors</i> , 2020, 20, 3866.	2.1	24
23	Hyperparameter Optimization for COVID-19 Pneumonia Diagnosis Based on Chest CT. <i>Sensors</i> , 2021, 21, 2174.	2.1	24
24	The role of malignant tissue on the thermal distribution of cancerous breast. <i>Journal of Theoretical Biology</i> , 2017, 426, 152-161.	0.8	22
25	Natural approach for thin-walled beam-columns with elastic-plasticity. <i>International Journal for Numerical Methods in Engineering</i> , 1990, 29, 1653-1679.	1.5	21
26	Video-Based Distance Traffic Analysis: Application to Vehicle Tracking and Counting. <i>Computing in Science and Engineering</i> , 2011, 13, 38-45.	1.2	21
27	Effective properties of regular elastic laminated shell composite. <i>Composites Part B: Engineering</i> , 2016, 87, 12-20.	5.9	21
28	Automatic Segmentation and Analysis of Thermograms Using Texture Descriptors for Breast Cancer Detection. , 2015, , .		20
29	An approach for automatic segmentation of thermal imaging in Computer Aided Diagnosis. <i>IEEE Latin America Transactions</i> , 2016, 14, 1856-1865.	1.2	20
30	Automated recognition of the pericardium contour on processed CT images using genetic algorithms. <i>Computers in Biology and Medicine</i> , 2017, 87, 38-45.	3.9	20
31	Identification of thyroid nodules in infrared images by convolutional neural networks. , 2018, , .		20
32	Segmentation of infrared images: A new technology for early detection of breast diseases. , 2015, , .		19
33	A new measure for comparing biomedical regions of interest in segmentation of digital images. <i>Discrete Applied Mathematics</i> , 2015, 197, 103-113.	0.5	18
34	Automatic Dynamic Task Distribution between CPU and GPU for Real-Time Systems. , 2008, , .		17
35	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
36	A new physics engine with automatic process distribution between CPU-GPU. , 2008, , .		16

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37	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
38	Haptic forces and gamification on epidural anesthesia skill gain. Entertainment Computing, 2018, 25, 1-13.	1.8	16
39	Combining approaches for early diagnosis of breast diseases using thermal imaging. International Journal of Innovative Computing and Applications, 2012, 4, 163.	0.2	15
40	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
41	A hybrid methodology for breast screening and cancer diagnosis using thermography. Computers in Biology and Medicine, 2021, 135, 104553.	3.9	15
42	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
43	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
44	Morphological classifiers. Pattern Recognition, 2018, 84, 82-96.	5.1	14
45	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
46	A system for real-time fabric inspection and industrial decision. , 2002, , .		13
47	A Comparison between Image-processing Approaches to Textile Inspection. Journal of the Textile Institute, 2000, 91, 317-323.	1.0	12
48	Image registration using genetic algorithms. , 2008, , .		12
49	An adaptative game loop architecture with automatic distribution of tasks between CPU and GPU. Computers in Entertainment, 2009, 7, 1-15.	1.2	12
50	Tumor growth modelling by cellular automata. Mathematics and Mechanics of Complex Systems, 2017, 5, 239-259.	0.5	12
51	Multivariate data driven prediction of COVID-19 dynamics: Towards new results with temperature, humidity and air quality data. Environmental Research, 2022, 204, 112348.	3.7	12
52	Using adaptive background subtraction into a multi-level model for traffic surveillance. Integrated Computer-Aided Engineering, 2012, 19, 239-256.	2.5	10
53	AES cryptography in color image steganography by genetic algorithms. , 2015, , .		10
54	Computer Aided Diagnosis for Breast Diseases Based on Infrared Images. , 2017, , .		10

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55	Application of thermography in the diagnostic investigation of thyroid nodules. Endocrine Journal, 2021, 68, 573-581.	0.7	9
56	Fractal coding based on image local fractal dimension. Computational and Applied Mathematics, 2005, 24, .	1.3	9
57	Parallel processing between GPU and CPU: Concepts in a game architecture. , 2007, , .		8
58	A bidimensional data structure and spatial optimization for supermassive crowd simulation on GPU. Computers in Entertainment, 2009, 7, 1-15.	1.2	8
59	Towards the automated segmentation of epicardial and mediastinal fats: A multi-manufacturer approach using intersubject registration and random forest. , 2015, , .		8
60	An approach for modeling threeâ€phase piezoelectric composites. Mathematical Methods in the Applied Sciences, 2017, 40, 3230-3248.	1.2	8
61	A dynamic decision model for diagnosis of dementia, Alzheimer's disease and Mild Cognitive Impairment. Computers in Biology and Medicine, 2020, 126, 104010.	3.9	8
62	On the possibility of using temperature to aid in thyroid nodule investigation. Scientific Reports, 2020, 10, 21010.	1.6	8
63	Stiffness Matrix for Nonlinear Analysis of Thinâ€Walled Frames. Journal of Engineering Mechanics - ASCE, 1992, 118, 1859-1875.	1.6	7
64	Using graph cuts in GPUs for color based human skin segmentation. Integrated Computer-Aided Engineering, 2011, 18, 41-59.	2.5	7
65	A simple approach for biometrics: Finger-knuckle prints recognition based on a Sobel filter and similarity measures. , 2016, , .		7
66	An Approach for Thyroid Nodule Analysis Using Thermographic Images. Series in Bioengineering, 2017, , 451-475.	0.3	7
67	Fractal triangular search: a metaheuristic for image content search. IET Image Processing, 2018, 12, 1475-1484.	1.4	7
68	An approach for enhancing fingerprint images using adaptive Gabor filter parameters. Pattern Recognition and Image Analysis, 2008, 18, 497-506.	0.6	6
69	Automatic texture segmentation based on k-means clustering and efficient calculation of co-occurrence features. , 2008, , .		6
70	A clinical decision support system for aiding diagnosis of Alzheimer's disease and related disorders in mobile devices. , 2017, , .		6
71	A Computational Method for Breast Abnormality Detection Using Thermographs. , 2020, , .		6
72	U-Net Convolutional Neural Networks for breast IR imaging segmentation on frontal and lateral view. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2023, 11, 311-316.	1.3	6

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73	Application of Infrared Images to Diagnosis and Modeling of Breast. Series in Bioengineering, 2017, , 159-173.	0.3	5
74	Comparing the Use of Sum and Difference Histograms and Gray Levels Occurrence Matrix for Texture Descriptors. , 2018, , .		5
75	Evaluation of Quantitative Features and Convolutional Neural Networks for Nodule Identification in Thyroid Thermographies. , 2019, , .		5
76	Real-time collision detection and response. , 0, , .		4
77	Intelligent automated brain image segmentation. International Journal of Innovative Computing and Applications, 2009, 2, 23.	0.2	4
78	Quantitative Ventricular Neuroendoscopy Performed on the Third Ventriculostomy: Anatomic Study. Operative Neurosurgery, 2011, 68, ons347-ons354.	0.4	4
79	Automatic detection of injuries in mammograms using image analysis techniques. , 2015, , .		4
80	Force modeling and gamification for Epidural Anesthesia training. , 2016, , .		4
81	Analysis of Static and Dynamic Infrared Images for Thyroid Nodules Investigation. , 2019, , .		4
82	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
83	Detecci3n de Posici3n Angular de Embarcaciones, utilizando T3cnicas de Visi3n Computacional y Redes Neurales Artificiales. Informacion Tecnologica (discontinued), 2010, 21, .	0.1	4
84	An Efficient Box-Couting Fractal Dimension Approach for Experimental Image Variation Characterization. , 1996, , 665-668.		3
85	On Using Lacunarity for Diagnosis of Breast Diseases Considering Thermal Images. , 2009, , .		3
86	The 17th International Conference on Systems, Signals and Image Processing (IWSSIP). Integrated Computer-Aided Engineering, 2011, 18, 1-1.	2.5	3
87	Signal processing techniques for detection of breast diseases. Signal Processing, 2013, 93, 2783-2784.	2.1	3
88	A virtual environment for breast exams practice with Haptics and gamification. , 2017, , .		3
89	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
90	Rational convolution roots of isobaric polynomials. Rocky Mountain Journal of Mathematics, 2017, 47, .	0.2	3

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91	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
92	Using Series of Infrared Data and SVM for Breast Normality Evaluation. , 2019, , .		3
93	ROI Extraction in Thermographic Breast Images Using Genetic Algorithms. , 2020, , .		3
94	Automatic Sinusoidal Curves Detection in Borehole Images Using the Iterated Local Search Algorithm. , 2020, , .		3
95	A Computational Study on the Role of Parameters for Identification of Thyroid Nodules by Infrared Images (and Comparison with Real Data). Sensors, 2021, 21, 4459.	2.1	3
96	A Survey on Ontology-Based Systems to Support the Prospection, Diagnosis and Treatment of Breast Cancer. , 0, , .		3
97	InvestigaÃ§Ã£o para detecÃ§Ã£o automÃ¡tica de falhas tÃ©xteis. Revista Brasileira De Ciencias Mecanicas/Journal of the Brazilian Society of Mechanical Sciences, 1999, 21, 493-507.	0.1	3
98	Texture segmentation considering multiband, multiresolution and affine invariant roughness. , 0, , .		2
99	Bhattacharyya probabilistic distance of the Dirichlet density and its application to Split-and-Merge image segmentation. , 2008, , .		2
100	Detecting shot transitions based on video content. , 2008, , .		2
101	Real Time Feature-Based Parallel Morphing in GPU Applied to Texture-Based Animation. , 2009, , .		2
102	A Multi-agent System for Dynamic Path Planning. , 2010, , .		2
103	A registration method for IR images: Preserving the thermal breast characteristics. , 2013, , .		2
104	Using wavelets on denoising infrared medical images. , 2015, , .		2
105	Cryptography and multiplicative arithmetic functions. , 2015, , .		2
106	On Efficient Computation of Texture Descriptors from Sum and Difference Histograms Considering the Scales of Patterns. , 2018, , .		2
107	A Novel Approach for the Segmentation of Breast Thermal Images Combining Image Processing and Collective Intelligence. , 2019, , .		2
108	A Parallel Method for Anatomical Structure Segmentation based on 3D Seeded Region Growing. , 2020, , .		2

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109	Computer Techniques for Detection of Breast Cancer and Follow Up Neoadjuvant Treatment. Advances in Bioinformatics and Biomedical Engineering Book Series, 2021, , 72-106.	0.2	2
110	Monitoring Breast Cancer Neoadjuvant Treatment using Thermographic Time Series. , 2021, , .		2
111	Fractal coding based on image local fractal dimension. Computational and Applied Mathematics, 2005, 24, .	1.0	2
112	Combining Image Processing and Artificial Intelligence for Dental Image Analysis: Trends, Challenges, and Applications. EAI/Springer Innovations in Communication and Computing, 2022, , 75-105.	0.9	2
113	A speech orientation animation system to disabled people. , 0, , .		1
114	Three-dimensional reconstruction of urban scenes from a single image. , 0, , .		1
115	Texture Segmentation and Edge Location of Regions in Multiband Images. IEEE Latin America Transactions, 2007, 5, 184-191.	1.2	1
116	On efficient use of wavelet in infrared image. , 2013, , .		1
117	A context-aware middleware for medical image based reports. , 2015, , .		1
118	A Semi-Analytical Heterogeneous Model for Thermal Analysis of Cancerous Breasts. Series in Bioengineering, 2017, , 175-190.	0.3	1
119	Modeling the behavior of human body tissues on penetration. AIP Conference Proceedings, 2018, , .	0.3	1
120	A System for Aiding Diagnosis of Alzheimer's Disease and Related Disorders with an Adaptable Decision Model. , 2018, , .		1
121	A Framework for Monitoring Patients with Alzheimer's and Other Dementias. , 2019, , .		1
122	Classification of damages on borehole walls by images. AIP Conference Proceedings, 2019, , .	0.3	1
123	A Non Linear Registration Without the Use of the Brightness Constancy Hypothesis. , 2020, , .		1
124	Introducing a new metric for automatic true color images granulometry. , 2008, , .		0
125	Clinical Dementia Rating Score Prediction Based on MR Segmentation. , 2008, , .		0
126	Influence of the Wavelet Family in the Compression-Denoising Technique on Synthetic and Natural Images. , 2009, , .		0



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127	Use of Coherence Measurements between EEG and EMG on Identification of the Myoclonus Locus. , 2009, , .		0
128	Scientific Image Processing. Computing in Science and Engineering, 2011, 13, 6-8.	1.2	0
129	A new approach to relatively short message steganography. , 2012, , .		0
130	Recognizing intensity degrees from expressions in 3D facial meshes. , 2013, , .		0
131	A Special Section on Healthcare and Biomechanical Applications. Journal of Medical Imaging and Health Informatics, 2014, 4, 76-78.	0.2	0
132	Combining fuzzy experts' decisions fusion with linguistic summarization of mammograms for computer-aided breast diagnosis. , 2016, , .		0
133	Monomodal Image Registration by Tensor Analysis: Going Beyond the Brightness Constancy Assumption. , 2018, , .		0
134	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
135	Determining the Direction of Images Using Sum and Difference Histograms and Texture Descriptors. , 2020, , .		0
136	USO DE ONTOLOGIAS PARA A MANIPULAÃÃ DE IMAGENS RELACIONADAS AO CÃNCER DE MAMA. Jornal Brasileiro De TeleSaÃde, 2013, 2, .	0.0	0
137	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
138	An approach based on image processing techniques to segment lung region in chest X-ray images. , 2021, , .		0