

# Wilfrido GÃ³mez-Flores

## List of Publications by Year in descending order

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33  
papers

947  
citations

687335

13  
h-index

642715

23  
g-index

37  
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docs citations

37  
times ranked

1078  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of Co-Occurrence Texture Statistics as a Function of Gray-Level Quantization for Classifying Breast Ultrasound. IEEE Transactions on Medical Imaging, 2012, 31, 1889-1899.	8.9	204
2	Automatic clustering using nature-inspired metaheuristics: A survey. Applied Soft Computing Journal, 2016, 41, 192-213.	7.2	174
3	Computerized lesion segmentation of breast ultrasound based on marker-controlled watershed transformation. Medical Physics, 2010, 37, 82-95.	3.0	92
4	Improving classification performance of breast lesions on ultrasonography. Pattern Recognition, 2015, 48, 1125-1136.	8.1	90
5	On the selection of surrogate models in evolutionary optimization algorithms. , 2011, , .		50
6	A comparative study of pre-trained convolutional neural networks for semantic segmentation of breast tumors in ultrasound. Computers in Biology and Medicine, 2020, 126, 104036.	7.0	50
7	Breast Ultrasound Despeckling Using Anisotropic Diffusion Guided by Texture Descriptors. Ultrasound in Medicine and Biology, 2014, 40, 2609-2621.	1.5	41
8	New Fully Automated Method for Segmentation of Breast Lesions on Ultrasound Based on Texture Analysis. Ultrasound in Medicine and Biology, 2016, 42, 1637-1650.	1.5	31
9	A computer-aided diagnosis system for breast ultrasound based on weighted BI-RADS classes. Computer Methods and Programs in Biomedicine, 2018, 153, 33-40.	4.7	28
10	Analysis of the impact of digital watermarking on computer-aided diagnosis in medical imaging. Computers in Biology and Medicine, 2016, 68, 37-48.	7.0	26
11	Detection of Huanglongbing disease based on intensity-invariant texture analysis of images in the visible spectrum. Computers and Electronics in Agriculture, 2019, 162, 825-835.	7.7	21
12	Assessment of the invariance and discriminant power of morphological features under geometric transformations for breast tumor classification. Computer Methods and Programs in Biomedicine, 2020, 185, 105173.	4.7	18
13	Evolutionary pulse-coupled neural network for segmenting breast lesions on ultrasonography. Neurocomputing, 2016, 175, 877-887.	5.9	16
14	A contrast enhancement method for improving the segmentation of breast lesions on ultrasonography. Computers in Biology and Medicine, 2017, 80, 14-23.	7.0	14
15	An evolutionary many-objective approach to multiview clustering using feature and relational data. Applied Soft Computing Journal, 2021, 108, 107425.	7.2	14
16	Smooth dendrite morphological neurons. Neural Networks, 2021, 136, 40-53.	5.9	12
17	Bone quality analysis using X-ray microtomography and microfluorescence. Applied Radiation and Isotopes, 2012, 70, 1272-1276.	1.5	9
18	A Performance Evaluation of Machine Learning Techniques for Breast Ultrasound Classification. , 2019, , .		9

#	ARTICLE	IF	CITATIONS
19	Texture Analysis Based on Auto-Mutual Information for Classifying Breast Lesions with Ultrasound. Ultrasound in Medicine and Biology, 2019, 45, 2213-2225.	1.5	8
20	A survey of cluster validity indices for automatic data clustering using differential evolution. , 2021, , .		8
21	Automatic adjustment of the pulse-coupled neural network hyperparameters based on differential evolution and cluster validity index for image segmentation. Applied Soft Computing Journal, 2020, 97, 105547.	7.2	7
22	BUSAT: A MATLAB Toolbox for Breast Ultrasound Image Analysis. Lecture Notes in Computer Science, 2017, , 268-277.	1.3	6
23	Many-view clustering. , 2019, , .		4
24	Improving the Classification Performance of Dendrite Morphological Neurons. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 4659-4673.	11.3	4
25	Towards Dendrite Spherical Neurons for Pattern Classification. Lecture Notes in Computer Science, 2020, , 14-24.	1.3	3
26	Modeling of Shape Attributes of the BI-RADS Lexicon for Breast Lesions Based on Multi-class Classification. IFMBE Proceedings, 2019, , 327-333.	0.3	2
27	Predicting the BI-RADS Lexicon for Mammographic Masses Using Hybrid Neural Models. , 2020, , .		2
28	Evolutionary Approach for Construction of the RBF Network Architecture. , 2014, , .		1
29	Construction of Mixed Covering Arrays Using a Combination of Simulated Annealing and Variable Neighborhood Search. Electronic Notes in Discrete Mathematics, 2015, 47, 109-116.	0.4	1
30	Automatic construction of the complete architecture of a radial basis function network using differential evolution. , 2017, , .		1
31	Semantic Segmentation of Mammograms Using Pre-Trained Deep Neural Networks. , 2021, , .		1
32	Detection of AAC compression using MDCT-based features and supervised learning. Journal of Experimental and Theoretical Artificial Intelligence, 0, , 1-18.	2.8	0
33	Evolutionary Clustering Using Multi-prototype Representation and Connectivity Criterion. Lecture Notes in Computer Science, 2017, , 63-73.	1.3	0