Ãngel Alfonso Cruz-Roa

List of Publications by Year
in descending order

29 papers	1,868 citations	687363 13 h-index	888059 17 g-index
29 all docs	29 docs citations	29 times ranked	2540 citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic Classification of Optical Defects of Mirrors from Ronchigram Images Using Bag of Visual Words and Support Vector Machines. Lecture Notes in Computer Science, 2018, , 719-726.	1.3	0
2	High-throughput adaptive sampling for whole-slide histopathology image analysis (HASHI) via convolutional neural networks: Application to invasive breast cancer detection. PLoS ONE, 2018, 13, e0196828.	2.5	100
3	Accurate and reproducible invasive breast cancer detection in whole-slide images: A Deep Learning approach for quantifying tumor extent. Scientific Reports, 2017, 7, 46450.	3.3	360
4	A Digital Pathology application for whole-slide histopathology image analysis based on genetic algorithm and Convolutional Networks. , 2016, , .		2
5	Improving the BoVW via discriminative visual n-grams and MKL strategies. Neurocomputing, 2016, 175, 768-781.	5.9	11
6	A method for medulloblastoma tumor differentiation based on convolutional neural networks and transfer learning. Proceedings of SPIE, 2015, , .	0.8	20
7	Automatic detection of wheezes by evaluation of multiple acoustic feature extraction methods and C-weighted SVM. , 2015, , .		4
8	A note on the stability and discriminability of graph-based features for classification problems in digital pathology. , 2015, , .		5
9	An unsupervised feature learning framework for basal cell carcinoma image analysis. Artificial Intelligence in Medicine, 2015, 64, 131-145.	6.5	80
10	A comparative evaluation of supervised and unsupervised representation learning approaches for anaplastic medulloblastoma differentiation. , 2015, , .		7
11	Identifying histological concepts on basal cell carcinoma images using nuclei based sampling and multi-scale descriptors. , 2015, , .		1
12	Assessment of algorithms for mitosis detection in breast cancer histopathology images. Medical Image Analysis, 2015, 20, 237-248.	11.6	338
13	Combining Unsupervised Feature Learning and Riesz Wavelets for Histopathology Image Representation: Application to Identifying Anaplastic Medulloblastoma. Lecture Notes in Computer Science, 2015, , 581-588.	1.3	12
14	Classification of Low-Level Atmospheric Structures Based on a Pyramid Representation and a Machine Learning Method. Lecture Notes in Computer Science, 2015, , 19-26.	1.3	0
15	Cascaded ensemble of convolutional neural networks and handcrafted features for mitosis detection. Proceedings of SPIE, 2014, , .	0.8	31
16	Automatic detection of invasive ductal carcinoma in whole slide images with convolutional neural networks. Proceedings of SPIE, 2014, , .	0.8	224
17	Mitosis detection in breast cancer pathology images by combining handcrafted and convolutional neural network features. Journal of Medical Imaging, 2014, 1, 034003.	1.5	264
18	High Throughput Location Proteomics in Confocal Images from the Human Protein Atlas Using a Bag-of-Features Representation. Advances in Intelligent Systems and Computing, 2014, , 77-82.	0.6	1

#	Article	IF	Citations
19	Representación de imágenes de histopatología utilizada en tareas de análisis automático: estado del arte. Revista Med, 2014, 22, 79.	0.1	32
20	Bag-of-visual-ngrams for histopathology image classification. , 2013, , .		6
21	A Deep Learning Architecture for Image Representation, Visual Interpretability and Automated Basal-Cell Carcinoma Cancer Detection. Lecture Notes in Computer Science, 2013, 16, 403-410.	1.3	209
22	Hybrid image representation learning model with invariant features for basal cell carcinoma detection. , 2013, , .		7
23	Automatic annotation of histopathological images using a latent topic model based on non-negative matrix factorization. Journal of Pathology Informatics, 2012, 2, 4.	1.7	24
24	BIGS: A framework for large-scale image processing and analysis over distributed and heterogeneous computing resources. , 2012, , .		7
25	A framework for high performance image analysis pipelines. , 2012, , .		2
26	A Visual Latent Semantic Approach for Automatic Analysis and Interpretation of Anaplastic Medulloblastoma Virtual Slides. Lecture Notes in Computer Science, 2012, 15, 157-164.	1.3	14
27	A framework for semantic analysis of histopathological images using nonnegative matrix factorization. , 2011, , .		0
28	Visual pattern mining in histology image collections using bag of features. Artificial Intelligence in Medicine, 2011, 52, 91-106.	6.5	104
29	Visual Pattern Analysis in Histopathology Images Using Bag of Features. Lecture Notes in Computer Science, 2009, , 521-528.	1.3	3