

Ignacio Arganda-Carreras

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

55,903
citations

279798

23
h-index

133252

59
g-index

75
all docs

75
docs citations

75
times ranked

94613
citing authors

#	ARTICLE	IF	CITATIONS
1	Fiji: an open-source platform for biological-image analysis. Nature Methods, 2012, 9, 676-682.	19.0	47,818
2	BoneJ: Free and extensible bone image analysis in ImageJ. Bone, 2010, 47, 1076-1079.	2.9	1,695
3	Trainable Weka Segmentation: a machine learning tool for microscopy pixel classification. Bioinformatics, 2017, 33, 2424-2426.	4.1	1,505
4	MorphoLibJ: integrated library and plugins for mathematical morphology with ImageJ. Bioinformatics, 2016, 32, 3532-3534.	4.1	921
5	TrakEM2 Software for Neural Circuit Reconstruction. PLoS ONE, 2012, 7, e38011.	2.5	832
6	Serial two-photon tomography for automated ex vivo mouse brain imaging. Nature Methods, 2012, 9, 255-258.	19.0	585
7	3D reconstruction of histological sections: Application to mammary gland tissue. Microscopy Research and Technique, 2010, 73, 1019-1029.	2.2	565
8	Mapping Social Behavior-Induced Brain Activation at Cellular Resolution in the Mouse. Cell Reports, 2015, 10, 292-305.	6.4	270
9	Crowdsourcing the creation of image segmentation algorithms for connectomics. Frontiers in Neuroanatomy, 2015, 9, 142.	1.7	248
10	Consistent and Elastic Registration of Histological Sections Using Vector-Spline Regularization. Lecture Notes in Computer Science, 2006, , 85-95.	1.3	214
11	Vision-Based Fall Detection with Convolutional Neural Networks. Wireless Communications and Mobile Computing, 2017, 2017, 1-16.	1.2	176
12	Deep Learning on Chest X-ray Images to Detect and Evaluate Pneumonia Cases at the Era of COVID-19. Journal of Medical Systems, 2021, 45, 75.	3.6	132
13	Olfactory projectome in the zebrafish forebrain revealed by genetic single-neuron labelling. Nature Communications, 2014, 5, 3639.	12.8	81
14	Multicolor multiscale brain imaging with chromatic multiphoton serial microscopy. Nature Communications, 2019, 10, 1662.	12.8	75
15	ANHIR: Automatic Non-Rigid Histological Image Registration Challenge. IEEE Transactions on Medical Imaging, 2020, 39, 3042-3052.	8.9	75
16	Avoiding a replication crisis in deep-learning-based bioimage analysis. Nature Methods, 2021, 18, 1136-1144.	19.0	56
17	MitoEM Dataset: Large-Scale 3D Mitochondria Instance Segmentation from EM Images. Lecture Notes in Computer Science, 2020, 12265, 66-76.	1.3	52
18	Identifying Neuronal Lineages of <i>Drosophila</i> by Sequence Analysis of Axon Tracts. Journal of Neuroscience, 2010, 30, 7538-7553.	3.6	50

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19	An Optimized Approach to Perform Bone Histomorphometry. <i>Frontiers in Endocrinology</i> , 2018, 9, 666.	3.5	49
20	<i>Nucleus</i> : an ImageJ plugin for quantifying 3D images of interphase nuclei. <i>Bioinformatics</i> , 2015, 31, 1144-1146.	4.1	48
21	A generic classification-based method for segmentation of nuclei in 3D images of early embryos. <i>BMC Bioinformatics</i> , 2014, 15, 9.	2.6	36
22	Efficient and compact face descriptor for driver drowsiness detection. <i>Expert Systems With Applications</i> , 2021, 168, 114334.	7.6	34
23	Phenotyping nematode feeding sites: three-dimensional reconstruction and volumetric measurements of giant cells induced by root-knot nematodes in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2015, 206, 868-880.	7.3	32
24	Robust regression with deep CNNs for facial age estimation: An empirical study. <i>Expert Systems With Applications</i> , 2020, 141, 112942.	7.6	22
25	Toward graph-based semi-supervised face beauty prediction. <i>Expert Systems With Applications</i> , 2020, 142, 112990.	7.6	19
26	Freeze-frame imaging of synaptic activity using SynTagMA. <i>Nature Communications</i> , 2020, 11, 2464.	12.8	19
27	Egocentric Vision-based Action Recognition: A survey. <i>Neurocomputing</i> , 2022, 472, 175-197.	5.9	19
28	Age estimation in facial images through transfer learning. <i>Machine Vision and Applications</i> , 2019, 30, 177-187.	2.7	18
29	Non-rigid consistent registration of 2D image sequences. <i>Physics in Medicine and Biology</i> , 2010, 55, 6215-6242.	3.0	16
30	A Statistically Representative Atlas for Mapping Neuronal Circuits in the <i>Drosophila</i> Adult Brain. <i>Frontiers in Neuroinformatics</i> , 2018, 12, 13.	2.5	16
31	Transfer learning and feature fusion for kinship verification. <i>Neural Computing and Applications</i> , 2020, 32, 7139-7151.	5.6	16
32	Division of labor and brain evolution in insect societies: Neurobiology of extreme specialization in the turtle ant <i>Cephalotes varians</i> . <i>PLoS ONE</i> , 2019, 14, e0213618.	2.5	15
33	Elastic image registration of 2-D gels for differential and repeatability studies. <i>Proteomics</i> , 2008, 8, 62-65.	2.2	14
34	NucMM Dataset: 3D Neuronal Nuclei Instance Segmentation at Sub-Cubic Millimeter Scale. <i>Lecture Notes in Computer Science</i> , 2021, , 164-174.	1.3	14
35	Stable Deep Neural Network Architectures for Mitochondria Segmentation on Electron Microscopy Volumes. <i>Neuroinformatics</i> , 2022, 20, 437-450.	2.8	13
36	Automatic registration of serial mammary gland sections. , 2004, 2004, 1691-4.		9

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37	Deep Learning based Detection of Hair Loss Levels from Facial Images. , 2019, , .		9
38	Brain virtual histology with X-ray phase-contrast tomography Part II: 3D morphologies of amyloid- β plaques in Alzheimer's disease models. Biomedical Optics Express, 2022, 13, 1640.	2.9	9
39	Deep learning based domain adaptation for mitochondria segmentation on EM volumes. Computer Methods and Programs in Biomedicine, 2022, 222, 106949.	4.7	9
40	Designing Image Analysis Pipelines in Light Microscopy: A Rational Approach. Methods in Molecular Biology, 2017, 1563, 185-207.	0.9	8
41	The human remains from Axlor (Dima, Biscay, northern Iberian Peninsula). American Journal of Physical Anthropology, 2020, 172, 475-491.	2.1	8
42	A quantitative biophysical principle to explain the 3D cellular connectivity in curved epithelia. Cell Systems, 2022, 13, 631-643.e8.	6.2	8
43	Multimodal Deep Learning for Advanced Driving Systems. Lecture Notes in Computer Science, 2018, , 95-105.	1.3	7
44	WDR20 regulates shuttling of the USP12 deubiquitinase complex between the plasma membrane, cytoplasm and nucleus. European Journal of Cell Biology, 2019, 98, 12-26.	3.6	7
45	Benchmarking Deep Neural Network Inference Performance on Serverless Environments With MLPerf. IEEE Software, 2021, 38, 81-87.	1.8	7
46	Image-based face beauty analysis via graph-based semi-supervised learning. Multimedia Tools and Applications, 2020, 79, 3005-3030.	3.9	6
47	AxonEM Dataset: 3D Axon Instance Segmentation of Brain Cortical Regions. Lecture Notes in Computer Science, 2021, , 175-185.	1.3	6
48	Group-wise 3D registration based templates to study the evolution of ant worker neuroanatomy. , 2017, , .		5
49	Optimal deployment of face recognition solutions in a heterogeneous IoT platform for secure elderly care applications. Procedia Computer Science, 2021, 192, 3204-3213.	2.0	5
50	Nonlinear, flexible, semisupervised learning scheme for face beauty scoring. Journal of Electronic Imaging, 2019, 28, 1.	0.9	4
51	A Comparative Analysis of Human Behavior Prediction Approaches in Intelligent Environments. Sensors, 2022, 22, 701.	3.8	4
52	3D Object Detection from LiDAR Data using Distance Dependent Feature Extraction. , 2020, , .		3
53	Designing Automated Deployment Strategies of Face Recognition Solutions in Heterogeneous IoT Platforms. Information (Switzerland), 2021, 12, 532.	2.9	3
54	Evaluating Age Estimation Using Deep Convolutional Neural Nets. IS&T International Symposium on Electronic Imaging, 2017, 2017, 100-105.	0.4	2

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55	On-demand Serverless Video Surveillance with Optimal Deployment of Deep Neural Networks. , 2021, , .		2
56	Inferring spatial relations from textual descriptions of images. Pattern Recognition, 2021, 113, 107847.	8.1	2
57	Robust 3D Object Detection from LiDAR Point Cloud Data with Spatial Information Aggregation. Advances in Intelligent Systems and Computing, 2021, , 813-823.	0.6	2
58	Using External Knowledge to Improve Zero-Shot Action Recognition in Egocentric Videos. Lecture Notes in Computer Science, 2020, , 174-185.	1.3	2
59	Statistical Atlases and Automatic Labeling Strategies to Accelerate the Analysis of Social Insect Brain Evolution. Frontiers in Ecology and Evolution, 2022, 9, .	2.2	2
60	How Can Deep Neural Networks Be Generated Efficiently for Devices with Limited Resources?. Lecture Notes in Computer Science, 2018, , 24-33.	1.3	1
61	Freeze-Frame Imaging of Synaptic Activity Using SynTagMA. SSRN Electronic Journal, 0, , .	0.4	1
62	Automated segmentation of thick confocal microscopy 3D images for the measurement of white matter volumes in zebrafish brains. Mathematical Morphology - Theory and Applications, 2020, 4, 31-45.	0.7	1
63	3D Object Detection from LiDAR Data using Distance Dependent Feature Extraction. , 2020, , .		1
64	Exploiting Egocentric Cues for Action Recognition for Ambient Assisted Living Applications. Advances in Science, Technology and Innovation, 2021, , 131-158.	0.4	0
65	An Empirical Study of Global Descriptors for Image-based Localization in Dense Urban Scenes. International Journal of Sensors, Wireless Communications and Control, 2016, 6, 142-152.	0.7	0
66	Chromatic serial multiphoton microscopy for high-content multiscale analysis of large brain volumes. , 2019, , .		0
67	Chromatic serial multiphoton microscopy for multicolor imaging of large brain volumes. , 2019, , .		0
68	Accurate 3D Object Detection from Point Cloud Data using Bird's Eye View Representations. , 2021, , .		0
69	MRI to CTA Translation for Pulmonary Artery Evaluation Using CycleGANs Trained with Unpaired Data. Lecture Notes in Computer Science, 2020, , 118-129.	1.3	0