Ignacio Arganda-Carreras

List of Publications by Citations

62 papers	32,713 citations	20 h-index	75 g-index
75 ext. papers	46,775 ext. citations	5.1 avg, IF	6.61 L-index

#	Paper	IF	Citations
62	Fiji: an open-source platform for biological-image analysis. *Nature Methods*, **2012**, 9, 676-82	21.6	27799
61	BoneJ: Free and extensible bone image analysis in ImageJ. *Bone*, **2010**, 47, 1076-9	4.7	1336
60	Trainable Weka Segmentation: a machine learning tool for microscopy pixel classification. *Bioinformatics*, **2017**, 33, 2424-2426	7.2	808
59	TrakEM2 software for neural circuit reconstruction. *PLoS ONE*, **2012**, 7, e38011	3.7	564
58	Serial two-photon tomography for automated ex vivo mouse brain imaging. *Nature Methods*, **2012**, 9, 255-8	21.6	411
57	3D reconstruction of histological sections: Application to mammary gland tissue. *Microscopy Research and Technique*, **2010**, 73, 1019-29	2.8	371
56	MorphoLibJ: integrated library and plugins for mathematical morphology with ImageJ. *Bioinformatics*, **2016**, 32, 3532-3534	7.2	315
55	Mapping social behavior-induced brain activation at cellular resolution in the mouse. *Cell Reports*, **2015**, 10, 292-305	10.6	179
54	Crowdsourcing the creation of image segmentation algorithms for connectomics. *Frontiers in Neuroanatomy*, **2015**, 9, 142	3.6	171
53	Consistent and Elastic Registration of Histological Sections Using Vector-Spline Regularization. *Lecture Notes in Computer Science*, **2006**, 85-95	0.9	156
52	Vision-Based Fall Detection with Convolutional Neural Networks. *Wireless Communications and Mobile Computing*, **2017**, 2017, 1-16	1.9	99
51	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	5.1	54
50	Olfactory projectome in the zebrafish forebrain revealed by genetic single-neuron labelling. *Nature Communications*, **2014**, 5, 3639	17.4	50
49	Multicolor multiscale brain imaging with chromatic multiphoton serial microscopy. *Nature Communications*, **2019**, 10, 1662	17.4	49
48	Identifying neuronal lineages of Drosophila by sequence analysis of axon tracts. *Journal of Neuroscience*, **2010**, 30, 7538-53	6.6	46
47	NucleusJ: an ImageJ plugin for quantifying 3D images of interphase nuclei. *Bioinformatics*, **2015**, 31, 1144-6	7.2	30
46	Phenotyping nematode feeding sites: three-dimensional reconstruction and volumetric measurements of giant cells induced by root-knot nematodes in Arabidopsis. *New Phytologist*, **2015**, 206, 868-80	9.8	25

#	Reference	IF	Cites
45	A generic classification-based method for segmentation of nuclei in 3D images of early embryos. *BMC Bioinformatics*, **2014**, 15, 9	3.6	24
44	ANHIR: Automatic Non-Rigid Histological Image Registration Challenge. *IEEE Transactions on Medical Imaging*, **2020**, 39, 3042-3052	11.7	22
43	An Optimized Approach to Perform Bone Histomorphometry. *Frontiers in Endocrinology*, **2018**, 9, 666	5.7	21
42	MitoEM Dataset: Large-scale 3D Mitochondria Instance Segmentation from EM Images. *Lecture Notes in Computer Science*, **2020**, 12265, 66-76	0.9	16
41	Non-rigid consistent registration of 2D image sequences. *Physics in Medicine and Biology*, **2010**, 55, 6215-42	3.8	13
40	A Statistically Representative Atlas for Mapping Neuronal Circuits in the Adult Brain. *Frontiers in Neuroinformatics*, **2018**, 12, 13	3.9	12
39	Elastic image registration of 2-D gels for differential and repeatability studies. *Proteomics*, **2008**, 8, 62-5	4.8	12
38	Robust regression with deep CNNs for facial age estimation: An empirical study. *Expert Systems With Applications*, **2020**, 141, 112942	7.8	12
37	Age estimation in facial images through transfer learning. *Machine Vision and Applications*, **2019**, 30, 1771-187	2.8	11
36	Transfer learning and feature fusion for kinship verification. *Neural Computing and Applications*, **2020**, 32, 7139-7151	4.8	11
35	Freeze-frame imaging of synaptic activity using SynTagMA. *Nature Communications*, **2020**, 11, 2464	17.4	10
34	Toward graph-based semi-supervised face beauty prediction. *Expert Systems With Applications*, **2020**, 142, 112990	7.8	7
33	Efficient and compact face descriptor for driver drowsiness detection. *Expert Systems With Applications*, **2021**, 168, 114334	7.8	7
32	Designing Image Analysis Pipelines in Light Microscopy: A Rational Approach. *Methods in Molecular Biology*, **2017**, 1563, 185-207	1.4	6
31	Avoiding a replication crisis in deep-learning-based bioimage analysis. *Nature Methods*, **2021**, 18, 1136-1144	24.6	6
30	Automatic registration of serial mammary gland sections. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2004**, 2004, 1691-4		5
29	Egocentric Vision-based Action Recognition: A survey. *Neurocomputing*, **2022**, 472, 175-197	5.4	5
28	Division of labor and brain evolution in insect societies: Neurobiology of extreme specialization in the turtle ant Cephalotes varians. *PLoS ONE*, **2019**, 14, e0213618	3.7	4

27	The human remains from Axlor (Dima, Biscay, northern Iberian Peninsula). *American Journal of Physical Anthropology*, **2020**, 172, 475-491	2.5	4
26	Image-based face beauty analysis via graph-based semi-supervised learning. *Multimedia Tools and Applications*, **2020**, 79, 3005-3030	2.5	4
25	Comparative Study of Human Age Estimation Based on Hand-Crafted and Deep Face Features. *Lecture Notes in Computer Science*, **2017**, 98-112	0.9	3
24	Multimodal Deep Learning for Advanced Driving Systems. *Lecture Notes in Computer Science*, **2018**, 95-105	0.9	3
23	3D Object Detection from LiDAR Data using Distance Dependent Feature Extraction **2020**,		3
22	Optimal deployment of face recognition solutions in a heterogeneous IoT platform for secure elderly care applications. *Procedia Computer Science*, **2021**, 192, 3204-3213	1.6	3
21	Deep Learning based Detection of Hair Loss Levels from Facial Images **2019**,		3
20	WDR20 regulates shuttling of the USP12 deubiquitinase complex between the plasma membrane, cytoplasm and nucleus. *European Journal of Cell Biology*, **2019**, 98, 12-26	6.1	3
19	Group-wise 3D registration based templates to study the evolution of ant worker neuroanatomy **2017**,		2
18	Stable Deep Neural Network Architectures for Mitochondria Segmentation on Electron Microscopy Volumes. *Neuroinformatics*, **2021**, 1	3.2	2
17	Nonlinear, flexible, semisupervised learning scheme for face beauty scoring. *Journal of Electronic Imaging*, **2019**, 28, 1	0.7	2
16	. *IEEE Software*, **2021**, 38, 81-87	1.5	2
15	Image-Based Driver Drowsiness Detection. *Lecture Notes in Computer Science*, **2019**, 61-71	0.9	1
14	Evaluating Age Estimation Using Deep Convolutional Neural Nets. *IS&T International Symposium on Electronic Imaging*, **2017**, 2017, 100-105	1	1
13	Using External Knowledge to Improve Zero-Shot Action Recognition in Egocentric Videos. *Lecture Notes in Computer Science*, **2020**, 174-185	0.9	1
12	Freeze-Frame Imaging of Synaptic Activity Using SynTagMA. *SSRN Electronic Journal*,	1	1
11	Brain virtual histology with X-ray phase-contrast tomography Part II:3D morphologies of amyloid-plaques in Alzheimer's disease models.. *Biomedical Optics Express*, **2022**, 13, 1640-1653	3.5	1
10	Robust 3D Object Detection from LiDAR Point Cloud Data with Spatial Information Aggregation. *Advances in Intelligent Systems and Computing*, **2021**, 813-823	0.4	1

List of Publications

9	Freeze-frame imaging of synaptic activity using SynTagMA		1
8	Inferring spatial relations from textual descriptions of images. *Pattern Recognition*, **2021**, 113, 107847	7.7	1
7	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	0.5	0
6	NucMM Dataset: 3D Neuronal Nuclei Instance Segmentation at Sub-Cubic Millimeter Scale. *Lecture Notes in Computer Science*, **2021**, 164-174	0.9	0
5	How Can Deep Neural Networks Be Generated Efficiently for Devices with Limited Resources?. *Lecture Notes in Computer Science*, **2018**, 24-33	0.9	0
4	AxonEM Dataset: 3D Axon Instance Segmentation of Brain Cortical Regions. *Lecture Notes in Computer Science*, **2021**, 175-185	0.9	0
3	Designing Automated Deployment Strategies of Face Recognition Solutions in Heterogeneous IoT Platforms. *Information (Switzerland)*, **2021**, 12, 532	2.6	0
2	MRI to CTA Translation for Pulmonary Artery Evaluation Using CycleGANs Trained with Unpaired Data. *Lecture Notes in Computer Science*, **2020**, 118-129	0.9	
1	Exploiting Egocentric Cues for Action Recognition for Ambient Assisted Living Applications. *Advances in Science, Technology and Innovation*, **2021**, 131-158	0.3	