

Ignacio Arganda-Carreras

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Egocentric Vision-based Action Recognition: A survey. <i>Neurocomputing</i> , 2022 , 472, 175-197	5.4	5
61	Brain virtual histology with X-ray phase-contrast tomography Part II:3D morphologies of amyloid-plaques in Alzheimer's disease models.. <i>Biomedical Optics Express</i> , 2022 , 13, 1640-1653	3.5	1
60	Stable Deep Neural Network Architectures for Mitochondria Segmentation on Electron Microscopy Volumes. <i>Neuroinformatics</i> , 2021 , 1	3.2	2
59	Optimal deployment of face recognition solutions in a heterogeneous IoT platform for secure elderly care applications. <i>Procedia Computer Science</i> , 2021 , 192, 3204-3213	1.6	3
58	Avoiding a replication crisis in deep-learning-based bioimage analysis. <i>Nature Methods</i> , 2021 , 18, 1136-1146	14.6	6
57	Robust 3D Object Detection from LiDAR Point Cloud Data with Spatial Information Aggregation. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 813-823	0.4	1
56	Inferring spatial relations from textual descriptions of images. <i>Pattern Recognition</i> , 2021 , 113, 107847	7.7	1
55	Deep Learning on Chest X-ray Images to Detect and Evaluate Pneumonia Cases at the Era of COVID-19. <i>Journal of Medical Systems</i> , 2021 , 45, 75	5.1	54
54	. <i>IEEE Software</i> , 2021 , 38, 81-87	1.5	2
53	Efficient and compact face descriptor for driver drowsiness detection. <i>Expert Systems With Applications</i> , 2021 , 168, 114334	7.8	7
52	Exploiting Egocentric Cues for Action Recognition for Ambient Assisted Living Applications. <i>Advances in Science, Technology and Innovation</i> , 2021 , 131-158	0.3	
51	NucMM Dataset: 3D Neuronal Nuclei Instance Segmentation at Sub-Cubic Millimeter Scale. <i>Lecture Notes in Computer Science</i> , 2021 , 164-174	0.9	0
50	AxonEM Dataset: 3D Axon Instance Segmentation of Brain Cortical Regions. <i>Lecture Notes in Computer Science</i> , 2021 , 175-185	0.9	0
49	Designing Automated Deployment Strategies of Face Recognition Solutions in Heterogeneous IoT Platforms. <i>Information (Switzerland)</i> , 2021 , 12, 532	2.6	0
48	Freeze-frame imaging of synaptic activity using SynTagMA. <i>Nature Communications</i> , 2020 , 11, 2464	17.4	10
47	ANHIR: Automatic Non-Rigid Histological Image Registration Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 3042-3052	11.7	22
46	Using External Knowledge to Improve Zero-Shot Action Recognition in Egocentric Videos. <i>Lecture Notes in Computer Science</i> , 2020 , 174-185	0.9	1

45	MRI to CTA Translation for Pulmonary Artery Evaluation Using CycleGANs Trained with Unpaired Data. <i>Lecture Notes in Computer Science</i> , 2020 , 118-129	0.9	
44	3D Object Detection from LiDAR Data using Distance Dependent Feature Extraction 2020 ,		3
43	Automated segmentation of thick confocal microscopy 3D images for the measurement of white matter volumes in zebrafish brains. <i>Mathematical Morphology - Theory and Applications</i> , 2020 , 4, 31-45	0.5	0
42	MitoEM Dataset: Large-scale 3D Mitochondria Instance Segmentation from EM Images. <i>Lecture Notes in Computer Science</i> , 2020 , 12265, 66-76	0.9	16
41	The human remains from Axlor (Dima, Biscay, northern Iberian Peninsula). <i>American Journal of Physical Anthropology</i> , 2020 , 172, 475-491	2.5	4
40	Image-based face beauty analysis via graph-based semi-supervised learning. <i>Multimedia Tools and Applications</i> , 2020 , 79, 3005-3030	2.5	4
39	Transfer learning and feature fusion for kinship verification. <i>Neural Computing and Applications</i> , 2020 , 32, 7139-7151	4.8	11
38	Toward graph-based semi-supervised face beauty prediction. <i>Expert Systems With Applications</i> , 2020 , 142, 112990	7.8	7
37	Robust regression with deep CNNs for facial age estimation: An empirical study. <i>Expert Systems With Applications</i> , 2020 , 141, 112942	7.8	12
36	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	3.7	4
35	Multicolor multiscale brain imaging with chromatic multiphoton serial microscopy. <i>Nature Communications</i> , 2019 , 10, 1662	17.4	49
34	Image-Based Driver Drowsiness Detection. <i>Lecture Notes in Computer Science</i> , 2019 , 61-71	0.9	1
33	Nonlinear, flexible, semisupervised learning scheme for face beauty scoring. <i>Journal of Electronic Imaging</i> , 2019 , 28, 1	0.7	2
32	Deep Learning based Detection of Hair Loss Levels from Facial Images 2019 ,		3
31	WDR20 regulates shuttling of the USP12 deubiquitinase complex between the plasma membrane, cytoplasm and nucleus. <i>European Journal of Cell Biology</i> , 2019 , 98, 12-26	6.1	3
30	Age estimation in facial images through transfer learning. <i>Machine Vision and Applications</i> , 2019 , 30, 177-187	1.87	11
29	A Statistically Representative Atlas for Mapping Neuronal Circuits in the Adult Brain. <i>Frontiers in Neuroinformatics</i> , 2018 , 12, 13	3.9	12
28	Multimodal Deep Learning for Advanced Driving Systems. <i>Lecture Notes in Computer Science</i> , 2018 , 95-105	0.59	3

27	An Optimized Approach to Perform Bone Histomorphometry. <i>Frontiers in Endocrinology</i> , 2018 , 9, 666	5.7	21
26	How Can Deep Neural Networks Be Generated Efficiently for Devices with Limited Resources?. <i>Lecture Notes in Computer Science</i> , 2018 , 24-33	0.9	0
25	Comparative Study of Human Age Estimation Based on Hand-Crafted and Deep Face Features. <i>Lecture Notes in Computer Science</i> , 2017 , 98-112	0.9	3
24	Trainable Weka Segmentation: a machine learning tool for microscopy pixel classification. <i>Bioinformatics</i> , 2017 , 33, 2424-2426	7.2	808
23	Designing Image Analysis Pipelines in Light Microscopy: A Rational Approach. <i>Methods in Molecular Biology</i> , 2017 , 1563, 185-207	1.4	6
22	Evaluating Age Estimation Using Deep Convolutional Neural Nets. <i>IS&T International Symposium on Electronic Imaging</i> , 2017 , 2017, 100-105	1	1
21	Group-wise 3D registration based templates to study the evolution of ant worker neuroanatomy 2017 ,		2
20	Vision-Based Fall Detection with Convolutional Neural Networks. <i>Wireless Communications and Mobile Computing</i> , 2017 , 2017, 1-16	1.9	99
19	MorphoLibJ: integrated library and plugins for mathematical morphology with ImageJ. <i>Bioinformatics</i> , 2016 , 32, 3532-3534	7.2	315
18	Crowdsourcing the creation of image segmentation algorithms for connectomics. <i>Frontiers in Neuroanatomy</i> , 2015 , 9, 142	3.6	171
17	NucleusJ: an ImageJ plugin for quantifying 3D images of interphase nuclei. <i>Bioinformatics</i> , 2015 , 31, 1144-5	4.6	30
16	Phenotyping nematode feeding sites: three-dimensional reconstruction and volumetric measurements of giant cells induced by root-knot nematodes in Arabidopsis. <i>New Phytologist</i> , 2015 , 206, 868-80	9.8	25
15	Mapping social behavior-induced brain activation at cellular resolution in the mouse. <i>Cell Reports</i> , 2015 , 10, 292-305	10.6	179
14	Olfactory projectome in the zebrafish forebrain revealed by genetic single-neuron labelling. <i>Nature Communications</i> , 2014 , 5, 3639	17.4	50
13	A generic classification-based method for segmentation of nuclei in 3D images of early embryos. <i>BMC Bioinformatics</i> , 2014 , 15, 9	3.6	24
12	TrakEM2 software for neural circuit reconstruction. <i>PLoS ONE</i> , 2012 , 7, e38011	3.7	564
11	Serial two-photon tomography for automated ex vivo mouse brain imaging. <i>Nature Methods</i> , 2012 , 9, 255-8	21.6	411
10	Fiji: an open-source platform for biological-image analysis. <i>Nature Methods</i> , 2012 , 9, 676-82	21.6	27799

9	Identifying neuronal lineages of <i>Drosophila</i> by sequence analysis of axon tracts. <i>Journal of Neuroscience</i> , 2010 , 30, 7538-53	6.6	46
8	Non-rigid consistent registration of 2D image sequences. <i>Physics in Medicine and Biology</i> , 2010 , 55, 6215-48	4.8	13
7	BoneJ: Free and extensible bone image analysis in ImageJ. <i>Bone</i> , 2010 , 47, 1076-9	4.7	1336
6	3D reconstruction of histological sections: Application to mammary gland tissue. <i>Microscopy Research and Technique</i> , 2010 , 73, 1019-29	2.8	371
5	Elastic image registration of 2-D gels for differential and repeatability studies. <i>Proteomics</i> , 2008 , 8, 62-5	4.8	12
4	Consistent and Elastic Registration of Histological Sections Using Vector-Spline Regularization. <i>Lecture Notes in Computer Science</i> , 2006 , 85-95	0.9	156
3	Automatic registration of serial mammary gland sections. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2004 , 2004, 1691-4		5
2	Freeze-Frame Imaging of Synaptic Activity Using SynTagMA. <i>SSRN Electronic Journal</i> ,	1	1
1	Freeze-frame imaging of synaptic activity using SynTagMA		1