

Ignacio Arganda-Carreras

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

55,903
citations

279701

23
h-index

133188

59
g-index

75
all docs

75
docs citations

75
times ranked

94613
citing authors

#	ARTICLE	IF	CITATIONS
1	Brain virtual histology with X-ray phase-contrast tomography Part II: 3D morphologies of amyloid- β^2 plaques in Alzheimer's disease models. Biomedical Optics Express, 2022, 13, 1640.	1.5	9
2	Stable Deep Neural Network Architectures for Mitochondria Segmentation on Electron Microscopy Volumes. Neuroinformatics, 2022, 20, 437-450.	1.5	13
3	Egocentric Vision-based Action Recognition: A survey. Neurocomputing, 2022, 472, 175-197.	3.5	19
4	A Comparative Analysis of Human Behavior Prediction Approaches in Intelligent Environments. Sensors, 2022, 22, 701.	2.1	4
5	Statistical Atlases and Automatic Labeling Strategies to Accelerate the Analysis of Social Insect Brain Evolution. Frontiers in Ecology and Evolution, 2022, 9, .	1.1	2
6	Deep learning based domain adaptation for mitochondria segmentation on EM volumes. Computer Methods and Programs in Biomedicine, 2022, 222, 106949.	2.6	9
7	A quantitative biophysical principle to explain the 3D cellular connectivity in curved epithelia. Cell Systems, 2022, 13, 631-643.e8.	2.9	8
8	Benchmarking Deep Neural Network Inference Performance on Serverless Environments With MLPerf. IEEE Software, 2021, 38, 81-87.	2.1	7
9	Efficient and compact face descriptor for driver drowsiness detection. Expert Systems With Applications, 2021, 168, 114334.	4.4	34
10	On-demand Serverless Video Surveillance with Optimal Deployment of Deep Neural Networks. , 2021, , .		2
11	Exploiting Egocentric Cues for Action Recognition for Ambient Assisted Living Applications. Advances in Science, Technology and Innovation, 2021, , 131-158.	0.2	0
12	NucMM Dataset: 3D Neuronal Nuclei Instance Segmentation at Sub-Cubic Millimeter Scale. Lecture Notes in Computer Science, 2021, , 164-174.	1.0	14
13	Inferring spatial relations from textual descriptions of images. Pattern Recognition, 2021, 113, 107847.	5.1	2
14	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.	2.2	132
15	AxonEM Dataset: 3D Axon Instance Segmentation of Brain Cortical Regions. Lecture Notes in Computer Science, 2021, , 175-185.	1.0	6
16	Optimal deployment of face recognition solutions in a heterogeneous IoT platform for secure elderly care applications. Procedia Computer Science, 2021, 192, 3204-3213.	1.2	5
17	Avoiding a replication crisis in deep-learning-based bioimage analysis. Nature Methods, 2021, 18, 1136-1144.	9.0	56
18	Robust 3D Object Detection from LiDAR Point Cloud Data with Spatial Information Aggregation. Advances in Intelligent Systems and Computing, 2021, , 813-823.	0.5	2

#	ARTICLE	IF	CITATIONS
19	Accurate 3D Object Detection from Point Cloud Data using Bird's Eye View Representations. , 2021, , .		0
20	Designing Automated Deployment Strategies of Face Recognition Solutions in Heterogeneous IoT Platforms. Information (Switzerland), 2021, 12, 532.	1.7	3
21	Transfer learning and feature fusion for kinship verification. Neural Computing and Applications, 2020, 32, 7139-7151.	3.2	16
22	Toward graph-based semi-supervised face beauty prediction. Expert Systems With Applications, 2020, 142, 112990.	4.4	19
23	Robust regression with deep CNNs for facial age estimation: An empirical study. Expert Systems With Applications, 2020, 141, 112942.	4.4	22
24	The human remains from Axlor (Dima, Biscay, northern Iberian Peninsula). American Journal of Physical Anthropology, 2020, 172, 475-491.	2.1	8
25	Image-based face beauty analysis via graph-based semi-supervised learning. Multimedia Tools and Applications, 2020, 79, 3005-3030.	2.6	6
26	Freeze-frame imaging of synaptic activity using SynTagMA. Nature Communications, 2020, 11, 2464.	5.8	19
27	ANHIR: Automatic Non-Rigid Histological Image Registration Challenge. IEEE Transactions on Medical Imaging, 2020, 39, 3042-3052.	5.4	75
28	MitoEM Dataset: Large-Scale 3D Mitochondria Instance Segmentation from EM Images. Lecture Notes in Computer Science, 2020, 12265, 66-76.	1.0	52
29	3D Object Detection from LiDAR Data using Distance Dependent Feature Extraction. , 2020, , .		3
30	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.	0.6	1
31	Using External Knowledge to Improve Zero-Shot Action Recognition in Ego-centric Videos. Lecture Notes in Computer Science, 2020, , 174-185.	1.0	2
32	MRI to CTA Translation for Pulmonary Artery Evaluation Using CycleGANs Trained with Unpaired Data. Lecture Notes in Computer Science, 2020, , 118-129.	1.0	0
33	3D Object Detection from LiDAR Data using Distance Dependent Feature Extraction. , 2020, , .		1
34	Division of labor and brain evolution in insect societies: Neurobiology of extreme specialization in the turtle ant Cephalotes varians. PLoS ONE, 2019, 14, e0213618.	1.1	15
35	Multicolor multiscale brain imaging with chromatic multiphoton serial microscopy. Nature Communications, 2019, 10, 1662.	5.8	75
36	Deep Learning based Detection of Hair Loss Levels from Facial Images. , 2019, , .		9

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37	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.	1.6	7
38	Age estimation in facial images through transfer learning. <i>Machine Vision and Applications</i> , 2019, 30, 177-187.	1.7	18
39	Chromatic serial multiphoton microscopy for high-content multiscale analysis of large brain volumes. , 2019, , .		0
40	Chromatic serial multiphoton microscopy for multicolor imaging of large brain volumes. , 2019, , .		0
41	Nonlinear, flexible, semisupervised learning scheme for face beauty scoring. <i>Journal of Electronic Imaging</i> , 2019, 28, 1.	0.5	4
42	An Optimized Approach to Perform Bone Histomorphometry. <i>Frontiers in Endocrinology</i> , 2018, 9, 666.	1.5	49
43	How Can Deep Neural Networks Be Generated Efficiently for Devices with Limited Resources?. <i>Lecture Notes in Computer Science</i> , 2018, , 24-33.	1.0	1
44	A Statistically Representative Atlas for Mapping Neuronal Circuits in the Drosophila Adult Brain. <i>Frontiers in Neuroinformatics</i> , 2018, 12, 13.	1.3	16
45	Multimodal Deep Learning for Advanced Driving Systems. <i>Lecture Notes in Computer Science</i> , 2018, , 95-105.	1.0	7
46	Trainable Weka Segmentation: a machine learning tool for microscopy pixel classification. <i>Bioinformatics</i> , 2017, 33, 2424-2426.	1.8	1,505
47	Designing Image Analysis Pipelines in Light Microscopy: A Rational Approach. <i>Methods in Molecular Biology</i> , 2017, 1563, 185-207.	0.4	8
48	Group-wise 3D registration based templates to study the evolution of ant worker neuroanatomy. , 2017, , .		5
49	Vision-Based Fall Detection with Convolutional Neural Networks. <i>Wireless Communications and Mobile Computing</i> , 2017, 2017, 1-16.	0.8	176
50	Evaluating Age Estimation Using Deep Convolutional Neural Nets. <i>IS&T International Symposium on Electronic Imaging</i> , 2017, 2017, 100-105.	0.3	2
51	MorphoLibj: integrated library and plugins for mathematical morphology with ImageJ. <i>Bioinformatics</i> , 2016, 32, 3532-3534.	1.8	921
52	An Empirical Study of Global Descriptors for Image-based Localization in Dense Urban Scenes. <i>International Journal of Sensors, Wireless Communications and Control</i> , 2016, 6, 142-152.	0.5	0
53	Crowdsourcing the creation of image segmentation algorithms for connectomics. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 142.	0.9	248
54	<i>Nucleus</i>: an ImageJ plugin for quantifying 3D images of interphase nuclei. <i>Bioinformatics</i> , 2015, 31, 1144-1146.	1.8	48

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55	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, 868-880.	3.5	32
56	Mapping Social Behavior-Induced Brain Activation at Cellular Resolution in the Mouse. <i>Cell Reports</i> , 2015, 10, 292-305.	2.9	270
57	Olfactory projectome in the zebrafish forebrain revealed by genetic single-neuron labelling. <i>Nature Communications</i> , 2014, 5, 3639.	5.8	81
58	A generic classification-based method for segmentation of nuclei in 3D images of early embryos. <i>BMC Bioinformatics</i> , 2014, 15, 9.	1.2	36
59	TrakEM2 Software for Neural Circuit Reconstruction. <i>PLoS ONE</i> , 2012, 7, e38011.	1.1	832
60	Serial two-photon tomography for automated ex vivo mouse brain imaging. <i>Nature Methods</i> , 2012, 9, 255-258.	9.0	585
61	Fiji: an open-source platform for biological-image analysis. <i>Nature Methods</i> , 2012, 9, 676-682.	9.0	47,818
62	3D reconstruction of histological sections: Application to mammary gland tissue. <i>Microscopy Research and Technique</i> , 2010, 73, 1019-1029.	1.2	565
63	Identifying Neuronal Lineages of <i>Drosophila</i> by Sequence Analysis of Axon Tracts. <i>Journal of Neuroscience</i> , 2010, 30, 7538-7553.	1.7	50
64	Non-rigid consistent registration of 2D image sequences. <i>Physics in Medicine and Biology</i> , 2010, 55, 6215-6242.	1.6	16
65	BoneJ: Free and extensible bone image analysis in ImageJ. <i>Bone</i> , 2010, 47, 1076-1079.	1.4	1,695
66	Elastic image registration of 2-D gels for differential and repeatability studies. <i>Proteomics</i> , 2008, 8, 62-65.	1.3	14
67	Consistent and Elastic Registration of Histological Sections Using Vector-Spline Regularization. <i>Lecture Notes in Computer Science</i> , 2006, , 85-95.	1.0	214
68	Automatic registration of serial mammary gland sections. , 2004, 2004, 1691-4.		9
69	Freeze-Frame Imaging of Synaptic Activity Using SynTagMA. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1