

Pablo Andrs Arbelez

List of Publications by Citations

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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.

64
papers

7,729
citations

26
h-index

70
g-index

70
ext. papers

9,673
ext. citations

4.4
avg, IF

6.37
L-index

#	Paper	IF	Citations
64	Contour detection and hierarchical image segmentation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2011 , 33, 898-916	13.3	2840
63	Hypercolumns for object segmentation and fine-grained localization 2015 ,		605
62	Semantic contours from inverse detectors 2011 ,		539
61	Multiscale Combinatorial Grouping 2014 ,		531
60	Learning Rich Features from RGB-D Images for Object Detection and Segmentation. <i>Lecture Notes in Computer Science</i> , 2014 , 345-360	0.9	442
59	Simultaneous Detection and Segmentation. <i>Lecture Notes in Computer Science</i> , 2014 , 297-312	0.9	306
58	Perceptual Organization and Recognition of Indoor Scenes from RGB-D Images 2013 ,		289
57	Multiscale Combinatorial Grouping for Image Segmentation and Object Proposal Generation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2017 , 39, 128-140	13.3	265
56	From contours to regions: An empirical evaluation 2009 ,		232
55	2008 ,		220
54	Deep Retinal Image Understanding. <i>Lecture Notes in Computer Science</i> , 2016 , 140-148	0.9	177
53	Semantic segmentation using regions and parts 2012 ,		143
52	Indoor Scene Understanding with RGB-D Images: Bottom-up Segmentation, Object Detection and Semantic Segmentation. <i>International Journal of Computer Vision</i> , 2015 , 112, 133-149	10.6	136
51	Aligning 3D models to RGB-D images of cluttered scenes 2015 ,		104
50	Convolutional Oriented Boundaries: From Image Segmentation to High-Level Tasks. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2018 , 40, 819-833	13.3	96
49	2015 ,		95
48	Occlusion boundary detection and figure/ground assignment from optical flow 2011 ,		88

47	Object Instance Segmentation and Fine-Grained Localization Using Hypercolumns. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2017 , 39, 627-639	13.3	50
46	Convolutional Oriented Boundaries. <i>Lecture Notes in Computer Science</i> , 2016 , 580-596	0.9	48
45	Articulated Pose Estimation Using Discriminative Armlet Classifiers 2013 ,		47
44	An image J plugin for the high throughput image analysis of in vitro scratch wound healing assays. <i>PLoS ONE</i> , 2020 , 15, e0232565	3.7	39
43	Context by region ancestry 2009 ,		31
42	Constrained image segmentation from hierarchical boundaries 2008 ,		29
41	Electron microscopy of biotinylated protein complexes bound to streptavidin monolayer crystals. <i>Journal of Structural Biology</i> , 2012 , 180, 249-53	3.4	27
40	Dynamic Multimodal Instance Segmentation Guided by Natural Language Queries. <i>Lecture Notes in Computer Science</i> , 2018 , 656-672	0.9	27
39	Automatic seizure detection based on imaged-EEG signals through fully convolutional networks. <i>Scientific Reports</i> , 2020 , 10, 21833	4.9	26
38	A Metric Approach to Vector-Valued Image Segmentation. <i>International Journal of Computer Vision</i> , 2006 , 69, 119-126	10.6	24
37	Experimental evaluation of support vector machine-based and correlation-based approaches to automatic particle selection. <i>Journal of Structural Biology</i> , 2011 , 175, 319-28	3.4	21
36	Energy Partitions and Image Segmentation. <i>Journal of Mathematical Imaging and Vision</i> , 2004 , 20, 43-57	1.6	21
35	Comparative validation of multi-instance instrument segmentation in endoscopy: Results of the ROBUST-MIS 2019 challenge. <i>Medical Image Analysis</i> , 2021 , 70, 101920	15.4	21
34	Multi-component Models for Object Detection. <i>Lecture Notes in Computer Science</i> , 2012 , 445-458	0.9	20
33	Finding Semantic Structures in Image Hierarchies Using Laplacian Graph Energy. <i>Lecture Notes in Computer Science</i> , 2010 , 694-707	0.9	19
32	The three R's of computer vision: Recognition, reconstruction and reorganization. <i>Pattern Recognition Letters</i> , 2016 , 72, 4-14	4.7	16
31	SMIT: Stochastic Multi-Label Image-to-Image Translation 2019 ,		15
30	2009 ,		14

29	Hand Pose Estimation for Pediatric Bone Age Assessment. <i>Lecture Notes in Computer Science</i> , 2019 , 531-539	5.39	12
28	ISINet: An Instance-Based Approach for Surgical Instrument Segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 595-605	0.9	10
27	Multi-view dynamic facial action unit detection. <i>Image and Vision Computing</i> , 2018 , 103723	3.7	8
26	Automated lung cancer diagnosis using three-dimensional convolutional neural networks. <i>Medical and Biological Engineering and Computing</i> , 2020 , 58, 1803-1815	3.1	7
25	Volumetric Semantic Segmentation using Pyramid Context Features. <i>Proceedings of the IEEE International Conference on Computer Vision</i> , 2013 , 2013, 3448-3455	3.3	7
24	Automated detection of lung nodules with three-dimensional convolutional neural networks 2017 ,		7
23	Active Speakers in Context 2020 ,		6
22	Classifying image sequences of astronomical transients with deep neural networks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 499, 3130-3138	4.3	5
21	An Uncertainty-Aware Visual System for Image Pre-Processing. <i>Journal of Imaging</i> , 2018 , 4, 109	3.1	5
20	Design, Screening, and Testing of Non-Rational Peptide Libraries with Antimicrobial Activity: In Silico and Experimental Approaches. <i>Antibiotics</i> , 2020 , 9,	4.9	4
19	Brain Tumor Segmentation and Parsing on MRIs Using Multiresolution Neural Networks. <i>Lecture Notes in Computer Science</i> , 2018 , 332-343	0.9	4
18	Automated particle correspondence and accurate tilt-axis detection in tilted-image pairs. <i>Journal of Structural Biology</i> , 2014 , 187, 66-75	3.4	4
17	Micro-surgical anastomose workflow recognition challenge report. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 212, 106452	6.9	4
16	A discriminant multi-scale histopathology descriptor using dictionary learning 2014 ,		3
15	MANTRA: A Machine-learning Reference Light-curve Data Set for Astronomical Transient Event Recognition. <i>Astrophysical Journal, Supplement Series</i> , 2020 , 250, 11	8	3
14	SIMBA: Specific Identity Markers for Bone Age Assessment. <i>Lecture Notes in Computer Science</i> , 2020 , 753-763	0.9	3
13	Gabor Layers Enhance Network Robustness. <i>Lecture Notes in Computer Science</i> , 2020 , 450-466	0.9	3
12	PharmaNet: Pharmaceutical discovery with deep recurrent neural networks. <i>PLoS ONE</i> , 2021 , 16, e0241728	3.8	3

11	Light-sheet enhanced resolution of light field microscopy for rapid imaging of large volumes 2018 ,		2
10	An empirical study on global bone age assessment 2020 ,		2
9	LUCAS: LUng CAncer Screening with Multimodal Biomarkers. <i>Lecture Notes in Computer Science</i> , 2020 , 115-124	0.9	2
8	Smart Pooling: AI-powered COVID-19 testing		2
7	Lung Nodule Malignancy Prediction in Sequential CT Scans: Summary of ISBI 2018 Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 3748-3761	11.7	2
6	Optimal and fast rotational alignment of volumes with missing data in Fourier space. <i>Journal of Structural Biology</i> , 2013 , 184, 345-7	3.4	1
5	UltraGAN: Ultrasound Enhancement Through Adversarial Generation. <i>Lecture Notes in Computer Science</i> , 2020 , 120-130	0.9	1
4	PharmaNet: Pharmaceutical discovery with deep recurrent neural networks		1
3	Surgical instrument grounding for robot-assisted interventions. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 1-9	0.9	
2	SAMA: Spatially-Aware Multimodal Network with Attention For Early Lung Cancer Diagnosis. <i>Lecture Notes in Computer Science</i> , 2021 , 48-58	0.9	
1	MAIN: Multi-Attention Instance Network for video segmentation. <i>Computer Vision and Image Understanding</i> , 2021 , 210, 103240	4.3	