Pablo Andrs Arbelez

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.

70 g-index

70 g-index

70 ext. papers

70 avg, IF

26 polymers

70 g-index

6.37 L-index

#	Paper	IF	Citations
64	SAMA: Spatially-Aware Multimodal Network with Attention For Early Lung Cancer Diagnosis. Lecture Notes in Computer Science, 2021, 48-58	0.9	
63	MIcro-surgical anastomose workflow recognition challenge report. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 212, 106452	6.9	4
62	PharmaNet: Pharmaceutical discovery with deep recurrent neural networks. <i>PLoS ONE</i> , 2021 , 16, e0241	732 8	3
61	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
60	MAIN: Multi-Attention Instance Network for video segmentation. <i>Computer Vision and Image Understanding</i> , 2021 , 210, 103240	4.3	
59	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
58	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
57	Automatic seizure detection based on imaged-EEG signals through fully convolutional networks. <i>Scientific Reports</i> , 2020 , 10, 21833	4.9	26
56	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
55	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
54	An empirical study on global bone age assessment 2020 ,		2
53	SIMBA: Specific Identity Markers for Bone Age Assessment. <i>Lecture Notes in Computer Science</i> , 2020 , 753-763	0.9	3
52	Gabor Layers Enhance Network Robustness. Lecture Notes in Computer Science, 2020, 450-466	0.9	3
51	UltraGAN: Ultrasound Enhancement Through Adversarial Generation. <i>Lecture Notes in Computer Science</i> , 2020 , 120-130	0.9	1
50	ISINet: An Instance-Based Approach for Surgical Instrument Segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 595-605	0.9	10
49	LUCAS: LUng CAncer Screening with Multimodal Biomarkers. <i>Lecture Notes in Computer Science</i> , 2020 , 115-124	0.9	2
48	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

(2015-2020)

47	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	
46	Active Speakers in Context 2020 ,		6	
45	Hand Pose Estimation for Pediatric Bone Age Assessment. <i>Lecture Notes in Computer Science</i> , 2019 , 537	1-539	12	
44	SMIT: Stochastic Multi-Label Image-to-Image Translation 2019 ,		15	
43	Brain Tumor Segmentation and Parsing on MRIs Using Multiresolution Neural Networks. <i>Lecture Notes in Computer Science</i> , 2018 , 332-343	0.9	4	
42	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	
41	Light-sheet enhanced resolution of light field microscopy for rapid imaging of large volumes 2018,		2	
40	Dynamic Multimodal Instance Segmentation Guided by Natural Language Queries. <i>Lecture Notes in Computer Science</i> , 2018 , 656-672	0.9	27	
39	An Uncertainty-Aware Visual System for Image Pre-Processing. <i>Journal of Imaging</i> , 2018 , 4, 109	3.1	5	
38	Multi-view dynamic facial action unit detection. <i>Image and Vision Computing</i> , 2018 , 103723	3.7	8	
37	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	
36	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	
35	Automated detection of lung nodules with three-dimensional convolutional neural networks 2017,		7	
34	The three RB of computer vision: Recognition, reconstruction and reorganization. <i>Pattern Recognition Letters</i> , 2016 , 72, 4-14	4.7	16	
33	Convolutional Oriented Boundaries. Lecture Notes in Computer Science, 2016, 580-596	0.9	48	
32	Deep Retinal Image Understanding. <i>Lecture Notes in Computer Science</i> , 2016 , 140-148	0.9	177	
31	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	
30	Aligning 3D models to RGB-D images of cluttered scenes 2015 ,		104	

29	Hypercolumns for object segmentation and fine-grained localization 2015,		605
28	2015,		95
27	Simultaneous Detection and Segmentation. Lecture Notes in Computer Science, 2014, 297-312	0.9	306
26	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
25	A discriminant multi-scale histopathology descriptor using dictionary learning 2014,		3
24	Multiscale Combinatorial Grouping 2014 ,		531
23	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
22	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
21	Perceptual Organization and Recognition of Indoor Scenes from RGB-D Images 2013,		289
20	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
19	Articulated Pose Estimation Using Discriminative Armlet Classifiers 2013,		47
18	Electron microscopy of biotinylated protein complexes bound to streptavidin monolayer crystals. Journal of Structural Biology, 2012 , 180, 249-53	3.4	27
17	Semantic segmentation using regions and parts 2012 ,		143
16	Multi-component Models for Object Detection. <i>Lecture Notes in Computer Science</i> , 2012 , 445-458	0.9	20
15	Occlusion boundary detection and figure/ground assignment from optical flow 2011,		88
14	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
13	Contour detection and hierarchical image segmentation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2011 , 33, 898-916	13.3	2840
12	Semantic contours from inverse detectors 2011 ,		539

LIST OF PUBLICATIONS

11	Finding Semantic Structures in Image Hierarchies Using Laplacian Graph Energy. <i>Lecture Notes in Computer Science</i> , 2010 , 694-707	0.9	19
10	Context by region ancestry 2009 ,		31
9	2009,		14
8	From contours to regions: An empirical evaluation 2009 ,		232
7	2008,		220
6	Constrained image segmentation from hierarchical boundaries 2008,		29
5	A Metric Approach to Vector-Valued Image Segmentation. <i>International Journal of Computer Vision</i> , 2006 , 69, 119-126	10.6	24
4	Energy Partitions and Image Segmentation. <i>Journal of Mathematical Imaging and Vision</i> , 2004 , 20, 43-57	1.6	21
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	Smart Pooling: AI-powered COVID-19 testing		2
1	PharmaNet: Pharmaceutical discovery with deep recurrent neural networks		1