

Pablo Andrés Arbeláez

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

11,825
citations

304368

22
h-index

288905

40
g-index

70
all docs

70
docs citations

70
times ranked

8462
citing authors

#	ARTICLE	IF	CITATIONS
1	Contour Detection and Hierarchical Image Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 898-916.	9.7	4,034
2	Semantic contours from inverse detectors. , 2011, , .		925
3	Hypercolumns for object segmentation and fine-grained localization. , 2015, , .		865
4	Multiscale Combinatorial Grouping. , 2014, , .		716
5	Learning Rich Features from RGB-D Images for Object Detection and Segmentation. Lecture Notes in Computer Science, 2014, , 345-360.	1.0	683
6	Simultaneous Detection and Segmentation. Lecture Notes in Computer Science, 2014, , 297-312.	1.0	506
7	Perceptual Organization and Recognition of Indoor Scenes from RGB-D Images. , 2013, , .		401
8	Multiscale Combinatorial Grouping for Image Segmentation and Object Proposal Generation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 128-140.	9.7	390
9	From contours to regions: An empirical evaluation. , 2009, , .		304
10	Using contours to detect and localize junctions in natural images. , 2008, , .		289
11	Deep Retinal Image Understanding. Lecture Notes in Computer Science, 2016, , 140-148.	1.0	253
12	The Medical Segmentation Decathlon. Nature Communications, 2022, 13, .	5.8	252
13	An image J plugin for the high throughput image analysis of in vitro scratch wound healing assays. PLoS ONE, 2020, 15, e0232565.	1.1	232
14	Semantic segmentation using regions and parts. , 2012, , .		189
15	Indoor Scene Understanding with RGB-D Images: Bottom-up Segmentation, Object Detection and Semantic Segmentation. International Journal of Computer Vision, 2015, 112, 133-149.	10.9	182
16	Convolutional Oriented Boundaries: From Image Segmentation to High-Level Tasks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 819-833.	9.7	149
17	Aligning 3D models to RGB-D images of cluttered scenes. , 2015, , .		141
18	Learning to segment moving objects in videos. , 2015, , .		127

#	ARTICLE	IF	CITATIONS
19	Occlusion boundary detection and figure/ground assignment from optical flow. , 2011, , .		109
20	Recognition using regions. , 2009, , .		94
21	Object Instance Segmentation and Fine-Grained Localization Using Hypercolumns. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 627-639.	9.7	76
22	Convolutional Oriented Boundaries. Lecture Notes in Computer Science, 2016, , 580-596.	1.0	76
23	Dynamic Multimodal Instance Segmentation Guided by Natural Language Queries. Lecture Notes in Computer Science, 2018, , 656-672.	1.0	75
24	Automatic seizure detection based on imaged-EEG signals through fully convolutional networks. Scientific Reports, 2020, 10, 21833.	1.6	65
25	Articulated Pose Estimation Using Discriminative Armlet Classifiers. , 2013, , .		60
26	Electron microscopy of biotinylated protein complexes bound to streptavidin monolayer crystals. Journal of Structural Biology, 2012, 180, 249-253.	1.3	43
27	Comparative validation of multi-instance instrument segmentation in endoscopy: Results of the ROBUST-MIS 2019 challenge. Medical Image Analysis, 2021, 70, 101920.	7.0	41
28	Constrained image segmentation from hierarchical boundaries. , 2008, , .		37
29	Context by region ancestry. , 2009, , .		37
30	SMIT: Stochastic Multi-Label Image-to-Image Translation. , 2019, , .		32
31	Multi-component Models for Object Detection. Lecture Notes in Computer Science, 2012, , 445-458.	1.0	31
32	A Metric Approach to Vector-Valued Image Segmentation. International Journal of Computer Vision, 2006, 69, 119-126.	10.9	27
33	The three R TM s of computer vision: Recognition, reconstruction and reorganization. Pattern Recognition Letters, 2016, 72, 4-14.	2.6	27
34	Automated lung cancer diagnosis using three-dimensional convolutional neural networks. Medical and Biological Engineering and Computing, 2020, 58, 1803-1815.	1.6	27
35	Hand Pose Estimation for Pediatric Bone Age Assessment. Lecture Notes in Computer Science, 2019, , 531-539.	1.0	27
36	Finding Semantic Structures in Image Hierarchies Using Laplacian Graph Energy. Lecture Notes in Computer Science, 2010, , 694-707.	1.0	27

#	ARTICLE	IF	CITATIONS
37	Active Speakers in Context. , 2020, , .		25
38	ISINet: An Instance-Based Approach for Surgical Instrument Segmentation. Lecture Notes in Computer Science, 2020, , 595-605.	1.0	25
39	Energy Partitions and Image Segmentation. Journal of Mathematical Imaging and Vision, 2004, 20, 43-57.	0.8	24
40	Experimental evaluation of support vector machine-based and correlation-based approaches to automatic particle selection. Journal of Structural Biology, 2011, 175, 319-328.	1.3	24
41	Design, Screening, and Testing of Non-Rational Peptide Libraries with Antimicrobial Activity: In Silico and Experimental Approaches. Antibiotics, 2020, 9, 854.	1.5	20
42	Multi-view dynamic facial action unit detection. Image and Vision Computing, 2022, 122, 103723.	2.7	15
43	Classifying image sequences of astronomical transients with deep neural networks. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3130-3138.	1.6	15
44	Micro-surgical anastomose workflow recognition challenge report. Computer Methods and Programs in Biomedicine, 2021, 212, 106452.	2.6	14
45	Lung Nodule Malignancy Prediction in Sequential CT Scans: Summary of ISBI 2018 Challenge. IEEE Transactions on Medical Imaging, 2021, 40, 3748-3761.	5.4	13
46	SIMBA: Specific Identity Markers for Bone Age Assessment. Lecture Notes in Computer Science, 2020, , 753-763.	1.0	11
47	Volumetric Semantic Segmentation Using Pyramid Context Features. , 2013, 2013, 3448-3455.		10
48	Automated detection of lung nodules with three-dimensional convolutional neural networks. , 2017, , .		10
49	An Uncertainty-Aware Visual System for Image Pre-Processing. Journal of Imaging, 2018, 4, 109.	1.7	8
50	MANTRA: A Machine-learning Reference Light-curve Data Set for Astronomical Transient Event Recognition. Astrophysical Journal, Supplement Series, 2020, 250, 11.	3.0	8
51	Rational Discovery of Antimicrobial Peptides by Means of Artificial Intelligence. Membranes, 2022, 12, 708.	1.4	8
52	PharmaNet: Pharmaceutical discovery with deep recurrent neural networks. PLoS ONE, 2021, 16, e0241728.	1.1	6
53	Gabor Layers Enhance Network Robustness. Lecture Notes in Computer Science, 2020, , 450-466.	1.0	6
54	A discriminant multi-scale histopathology descriptor using dictionary learning. , 2014, , .		5

#	ARTICLE	IF	CITATIONS
55	Brain Tumor Segmentation and Parsing on MRIs Using Multiresolution Neural Networks. Lecture Notes in Computer Science, 2018, , 332-343.	1.0	5
56	UltraGAN: Ultrasound Enhancement Through Adversarial Generation. Lecture Notes in Computer Science, 2020, , 120-130.	1.0	5
57	Automated particle correspondence and accurate tilt-axis detection in tilted-image pairs. Journal of Structural Biology, 2014, 187, 66-75.	1.3	4
58	An empirical study on global bone age assessment. , 2020, , .		4
59	Light-sheet enhanced resolution of light field microscopy for rapid imaging of large volumes. , 2018, , .		3
60	LUCAS: LUng CAncer Screening with Multimodal Biomarkers. Lecture Notes in Computer Science, 2020, , 115-124.	1.0	2
61	Optimal and fast rotational alignment of volumes with missing data in Fourier space. Journal of Structural Biology, 2013, 184, 345-347.	1.3	1
62	Analysis of PHOW representations for Alzheimer disease classification on brain structural MRI. , 2016, , .		0
63	MAIN: Multi-Attention Instance Network for video segmentation. Computer Vision and Image Understanding, 2021, 210, 103240.	3.0	0
64	SAMA: Spatially-Aware Multimodal Network with Attention For Early Lung Cancer Diagnosis. Lecture Notes in Computer Science, 2021, , 48-58.	1.0	0
65	Learning to segment mouse embryo cells. , 2017, , .		0
66	Learning to segment brain tumors. , 2020, , .		0
67	Precise human pose estimation based on two-dimensional images for kinematic analysis. , 2020, , .		0
68	Surgical instrument grounding for robot-assisted interventions. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 0, , 1-9.	1.3	0