

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	Multi-view dynamic facial action unit detection. Image and Vision Computing, 2022, 122, 103723.	2.7	15
2	Rational Discovery of Antimicrobial Peptides by Means of Artificial Intelligence. Membranes, 2022, 12, 708.	1.4	8
3	The Medical Segmentation Decathlon. Nature Communications, 2022, 13, .	5.8	252
4	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
5	PharmaNet: Pharmaceutical discovery with deep recurrent neural networks. PLoS ONE, 2021, 16, e0241728.	1.1	6
6	MAIN: Multi-Attention Instance Network for video segmentation. Computer Vision and Image Understanding, 2021, 210, 103240.	3.0	0
7	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
8	SAMA: Spatially-Aware Multimodal Network with Attention For Early Lung Cancer Diagnosis. Lecture Notes in Computer Science, 2021, , 48-58.	1.0	0
9	Micro-surgical anastomose workflow recognition challenge report. Computer Methods and Programs in Biomedicine, 2021, 212, 106452.	2.6	14
10	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
11	Active Speakers in Context. , 2020, , .		25
12	Design, Screening, and Testing of Non-Rational Peptide Libraries with Antimicrobial Activity: In Silico and Experimental Approaches. Antibiotics, 2020, 9, 854.	1.5	20
13	Automatic seizure detection based on imaged-EEG signals through fully convolutional networks. Scientific Reports, 2020, 10, 21833.	1.6	65
14	Automated lung cancer diagnosis using three-dimensional convolutional neural networks. Medical and Biological Engineering and Computing, 2020, 58, 1803-1815.	1.6	27
15	Gabor Layers Enhance Network Robustness. Lecture Notes in Computer Science, 2020, , 450-466.	1.0	6
16	UltraGAN: Ultrasound Enhancement Through Adversarial Generation. Lecture Notes in Computer Science, 2020, , 120-130.	1.0	5
17	ISINet: An Instance-Based Approach for Surgical Instrument Segmentation. Lecture Notes in Computer Science, 2020, , 595-605.	1.0	25
18	LUCAS: LUng CAncer Screening with Multimodal Biomarkers. Lecture Notes in Computer Science, 2020, , 115-124.	1.0	2

#	ARTICLE	IF	CITATIONS
19	Classifying image sequences of astronomical transients with deep neural networks. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3130-3138.	1.6	15
20	MANTRA: A Machine-learning Reference Light-curve Data Set for Astronomical Transient Event Recognition. Astrophysical Journal, Supplement Series, 2020, 250, 11.	3.0	8
21	An empirical study on global bone age assessment. , 2020, , .		4
22	Learning to segment brain tumors. , 2020, , .		0
23	SIMBA: Specific Identity Markers for Bone Age Assessment. Lecture Notes in Computer Science, 2020, , 753-763.	1.0	11
24	Precise human pose estimation based on two-dimensional images for kinematic analysis. , 2020, , .		0
25	SMIT: Stochastic Multi-Label Image-to-Image Translation. , 2019, , .		32
26	Hand Pose Estimation for Pediatric Bone Age Assessment. Lecture Notes in Computer Science, 2019, , 531-539.	1.0	27
27	Brain Tumor Segmentation and Parsing on MRIs Using Multiresolution Neural Networks. Lecture Notes in Computer Science, 2018, , 332-343.	1.0	5
28	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
29	An Uncertainty-Aware Visual System for Image Pre-Processing. Journal of Imaging, 2018, 4, 109.	1.7	8
30	Dynamic Multimodal Instance Segmentation Guided by Natural Language Queries. Lecture Notes in Computer Science, 2018, , 656-672.	1.0	75
31	Light-sheet enhanced resolution of light field microscopy for rapid imaging of large volumes. , 2018, , .		3
32	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
33	Object Instance Segmentation and Fine-Grained Localization Using Hypercolumns. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 627-639.	9.7	76
34	Automated detection of lung nodules with three-dimensional convolutional neural networks. , 2017, , .		10
35	Learning to segment mouse embryo cells. , 2017, , .		0
36	Analysis of PHOW representations for Alzheimer disease classification on brain structural MRI. , 2016, , .		0

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37	The three R ² s of computer vision: Recognition, reconstruction and reorganization. Pattern Recognition Letters, 2016, 72, 4-14.	2.6	27
38	Convolutional Oriented Boundaries. Lecture Notes in Computer Science, 2016, , 580-596.	1.0	76
39	Deep Retinal Image Understanding. Lecture Notes in Computer Science, 2016, , 140-148.	1.0	253
40	Aligning 3D models to RGB-D images of cluttered scenes. , 2015, , .		141
41	Hypercolumns for object segmentation and fine-grained localization. , 2015, , .		865
42	Learning to segment moving objects in videos. , 2015, , .		127
43	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
44	A discriminant multi-scale histopathology descriptor using dictionary learning. , 2014, , .		5
45	Multiscale Combinatorial Grouping. , 2014, , .		716
46	Simultaneous Detection and Segmentation. Lecture Notes in Computer Science, 2014, , 297-312.	1.0	506
47	Automated particle correspondence and accurate tilt-axis detection in tilted-image pairs. Journal of Structural Biology, 2014, 187, 66-75.	1.3	4
48	Learning Rich Features from RGB-D Images for Object Detection and Segmentation. Lecture Notes in Computer Science, 2014, , 345-360.	1.0	683
49	Optimal and fast rotational alignment of volumes with missing data in Fourier space. Journal of Structural Biology, 2013, 184, 345-347.	1.3	1
50	Perceptual Organization and Recognition of Indoor Scenes from RGB-D Images. , 2013, , .		401
51	Volumetric Semantic Segmentation Using Pyramid Context Features. , 2013, 2013, 3448-3455.		10
52	Articulated Pose Estimation Using Discriminative Armlet Classifiers. , 2013, , .		60
53	Semantic segmentation using regions and parts. , 2012, , .		189
54	Electron microscopy of biotinylated protein complexes bound to streptavidin monolayer crystals. Journal of Structural Biology, 2012, 180, 249-253.	1.3	43

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55	Multi-component Models for Object Detection. Lecture Notes in Computer Science, 2012, , 445-458.	1.0	31
56	Occlusion boundary detection and figure/ground assignment from optical flow. , 2011, , .		109
57	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
58	Contour Detection and Hierarchical Image Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 898-916.	9.7	4,034
59	Semantic contours from inverse detectors. , 2011, , .		925
60	Finding Semantic Structures in Image Hierarchies Using Laplacian Graph Energy. Lecture Notes in Computer Science, 2010, , 694-707.	1.0	27
61	Context by region ancestry. , 2009, , .		37
62	Recognition using regions. , 2009, , .		94
63	From contours to regions: An empirical evaluation. , 2009, , .		304
64	Using contours to detect and localize junctions in natural images. , 2008, , .		289
65	Constrained image segmentation from hierarchical boundaries. , 2008, , .		37
66	A Metric Approach to Vector-Valued Image Segmentation. International Journal of Computer Vision, 2006, 69, 119-126.	10.9	27
67	Energy Partitions and Image Segmentation. Journal of Mathematical Imaging and Vision, 2004, 20, 43-57.	0.8	24
68	Surgical instrument grounding for robot-assisted interventions. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 0, , 1-9.	1.3	0