

# Maria A Zuluaga

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

2,225  
citations

516710

16  
h-index

254184

43  
g-index

63  
all docs

63  
docs citations

63  
times ranked

3034  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interactive Medical Image Segmentation Using Deep Learning With Image-Specific Fine Tuning. IEEE Transactions on Medical Imaging, 2018, 37, 1562-1573.	8.9	541
2	USAD. , 2020, , .		273
3	DeepGeoS: A Deep Interactive Geodesic Framework for Medical Image Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1559-1572.	13.9	269
4	Right ventricle segmentation from cardiac MRI: A collation study. Medical Image Analysis, 2015, 19, 187-202.	11.6	189
5	Benchmark for Algorithms Segmenting the Left Atrium From 3D CT and MRI Datasets. IEEE Transactions on Medical Imaging, 2015, 34, 1460-1473.	8.9	140
6	Automated voxel-based 3D cortical thickness measurement in a combined Lagrangian-Eulerian PDE approach using partial volume maps. Medical Image Analysis, 2009, 13, 730-743.	11.6	88
7	Evaluation framework for carotid bifurcation lumen segmentation and stenosis grading. Medical Image Analysis, 2011, 15, 477-488.	11.6	70
8	Detecting Clinically Meaningful Shape Clusters in Medical Image Data: Metrics Analysis for Hierarchical Clustering Applied to Healthy and Pathological Aortic Arches. IEEE Transactions on Biomedical Engineering, 2017, 64, 2373-2383.	4.2	62
9	Slic-Seg: A minimally interactive segmentation of the placenta from sparse and motion-corrupted fetal MRI in multiple views. Medical Image Analysis, 2016, 34, 137-147.	11.6	56
10	Multi-atlas Propagation Whole Heart Segmentation from MRI and CTA Using a Local Normalised Correlation Coefficient Criterion. Lecture Notes in Computer Science, 2013, , 174-181.	1.3	54
11	Automated multiple trajectory planning algorithm for the placement of stereo-electroencephalography (SEEG) electrodes in epilepsy treatment. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 123-136.	2.8	37
12	Micro-CT and histological investigation of the spatial pattern of fetoplacental vascular density. Placenta, 2019, 88, 36-43.	1.5	35
13	Automatic detection of abnormal vascular cross-sections based on density level detection and support vector machines. International Journal of Computer Assisted Radiology and Surgery, 2011, 6, 163-174.	2.8	30
14	Selection bias in the reported performances of AD classification pipelines. NeuroImage: Clinical, 2017, 14, 400-416.	2.7	30
15	A Computer Assisted Planning System for the Placement of sEEG Electrodes in the Treatment of Epilepsy. Lecture Notes in Computer Science, 2014, , 118-127.	1.3	23
16	Stability, structure and scale: improvements in multi-modal vessel extraction for SEEG trajectory planning. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1227-1237.	2.8	21
17	Differential hippocampal shapes in posterior cortical atrophy patients: A comparison with control and typical AD subjects. Human Brain Mapping, 2015, 36, 5123-5136.	3.6	19
18	Autism spectrum disorder characterization in children by capturing local-regional brain changes in MRI. Medical Physics, 2020, 47, 119-131.	3.0	18

#	ARTICLE	IF	CITATIONS
19	Imaging the human placental microcirculation with micro-focus computed tomography: Optimisation of tissue preparation and image acquisition. <i>Placenta</i> , 2017, 60, 36-39.	1.5	17
20	Standardized unfold mapping: a technique to permit left atrial regional data display and analysis. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2017, 50, 125-131.	1.3	17
21	Learning from Only Positive and Unlabeled Data to Detect Lesions in Vascular CT Images. <i>Lecture Notes in Computer Science</i> , 2011, 14, 9-16.	1.3	16
22	QUANTIFICATION OF THE 3D MORPHOLOGY OF THE BONE CELL NETWORK FROM SYNCHROTRON MICRO-CT IMAGES. <i>Image Analysis and Stereology</i> , 2014, 33, 157.	0.9	15
23	Bone canalicular network segmentation in 3D nano-CT images through geodesic voting and image tessellation. <i>Physics in Medicine and Biology</i> , 2014, 59, 2155-2171.	3.0	15
24	Slic-Seg: Slice-by-Slice Segmentation Propagation of the Placenta in Fetal MRI Using One-Plane Scribbles and Online Learning. <i>Lecture Notes in Computer Science</i> , 2015, , 29-37.	1.3	15
25	Vessel-CAPTCHA: An efficient learning framework for vessel annotation and segmentation. <i>Medical Image Analysis</i> , 2022, 75, 102263.	11.6	15
26	Voxelwise atlas rating for computer assisted diagnosis: Application to congenital heart diseases of the great arteries. <i>Medical Image Analysis</i> , 2015, 26, 185-194.	11.6	14
27	Automatic segmentation of right ventricle in cardiac cine MR images using a saliency analysis. <i>Medical Physics</i> , 2016, 43, 6270-6281.	3.0	13
28	Fuzzy classification of brain MRI using a priori knowledge: weighted fuzzy C-means. , 2007, , .		11
29	From Accuracy to Reliability and Robustness in Cardiac Magnetic Resonance Image Segmentation: A Review. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3936.	2.5	11
30	Inference of Cerebrovascular Topology With Geodesic Minimum Spanning Trees. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 225-239.	8.9	10
31	Investigating Cardiac Motion Patterns Using Synthetic High-Resolution 3D Cardiovascular Magnetic Resonance Images and Statistical Shape Analysis. <i>Frontiers in Pediatrics</i> , 2017, 5, 34.	1.9	9
32	Substantially thinner internal granular layer and reduced molecular layer surface in the cerebellar cortex of the Tc1 mouse model of down syndrome “a comprehensive morphometric analysis with active staining contrast-enhanced MRI. <i>NeuroImage</i> , 2020, 223, 117271.	4.2	7
33	SEEG Trajectory Planning: Combining Stability, Structure and Scale in Vessel Extraction. <i>Lecture Notes in Computer Science</i> , 2014, 17, 651-658.	1.3	7
34	VTrails: Inferring Vessels with Geodesic Connectivity Trees. <i>Lecture Notes in Computer Science</i> , 2017, , 672-684.	1.3	7
35	Cortical thickness measurement from magnetic resonance images using partial volume estimation. <i>Proceedings of SPIE</i> , 2008, , .	0.8	5
36	A new quantitative approach for estimating bone cell connections from nano-CT images. , 2013, 2013, 3694-7.		5

#	ARTICLE	IF	CITATIONS
37	Efficient Model Monitoring for Quality Control in Cardiac Image Segmentation. Lecture Notes in Computer Science, 2021, , 101-111.	1.3	5
38	Dynamically Balanced Online Random Forests for Interactive Scribble-Based Segmentation. Lecture Notes in Computer Science, 2016, , 352-360.	1.3	5
39	Feature Selection for SVM-Based Vascular Anomaly Detection. Lecture Notes in Computer Science, 2011, , 141-152.	1.3	5
40	From Univariate to Multivariate Time Series Anomaly Detection with Non-Local Information. Lecture Notes in Computer Science, 2021, , 186-194.	1.3	5
41	Synchrotron radiation CT from the micro to nanoscale for the investigation of bone tissue. Proceedings of SPIE, 2012, , .	0.8	4
42	Improved cortical thickness measurement from MR images using partial volume estimation. , 2008, , .		3
43	Feature selection based on empirical-risk function to detect lesions in vascular computed tomography. Irbm, 2014, 35, 244-254.	5.6	3
44	Automatic segmentation of 4D cardiac MR images for extraction of ventricular chambers using a spatio-temporal approach. Proceedings of SPIE, 2016, , .	0.8	3
45	Elastic Registration of Geodesic Vascular Graphs. Lecture Notes in Computer Science, 2018, , 810-818.	1.3	3
46	The Empirical Variance Estimator for Computer Aided Diagnosis: Lessons for Algorithm Validation. Lecture Notes in Computer Science, 2014, 17, 236-243.	1.3	3
47	3D X-ray CT imaging of the bone Lacuno-Canalicular Network. , 2012, , .		2
48	Multi-atlas synthesis for computer assisted diagnosis: Application to cardiovascular diseases. , 2015, , .		2
49	Efficient Anatomy Driven Automated Multiple Trajectory Planning for Intracranial Electrode Implantation. Lecture Notes in Computer Science, 2016, , 542-550.	1.3	2
50	A Fast Lesion Registration to Assist Coronary Heart Disease Diagnosis in CTA Images. Lecture Notes in Computer Science, 2012, , 710-717.	1.3	2
51	Strengths and Pitfalls of Whole-Heart Atlas-Based Segmentation in Congenital Heart Disease Patients. Lecture Notes in Computer Science, 2017, , 139-146.	1.3	2
52	Translating Emotions fromÂEEG toÂVisual Arts. Lecture Notes in Computer Science, 2022, , 243-258.	1.3	2
53	Multi-atlas based pathological stratification of D-TGA congenital heart disease. , 2014, , .		1
54	Bolstering Heuristics for Statistical Validation of Prediction Algorithms. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
55	Papillary Muscle Segmentation from a Multi-atlas Database: A Feasibility Study. Lecture Notes in Computer Science, 2016, , 80-89.	1.3	1
56	Benchmarking Anomaly Detection Algorithms in an Industrial Context: Dealing with Scarce Labels and Multiple Positive Types. , 2018, , .		1
57	Can the Coronary Artery Centerline Extraction in Computed Tomography Images Be Improved by Use of a Partial Volume Model?. Lecture Notes in Computer Science, 2010, , 385-392.	1.3	1
58	Using Out-of-Distribution Detection for Model Refinement in Cardiac Image Segmentation. Lecture Notes in Computer Science, 2022, , 374-382.	1.3	1
59	Voronoi-based analysis of bone cell network from synchrotron radiation micro-CT images. , 2015, , .		0
60	Automatic right ventricle (RV) segmentation by propagating a basal spatio-temporal characterization. , 2015, , .		0
61	Grey Matter Sublayer Thickness Estimation in the Mouse Cerebellum. Lecture Notes in Computer Science, 2015, , 644-651.	1.3	0