

Xavier Lladó³ Bardera

List of Publications by Year in descending order

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135
papers

5,100
citations

134610

34
h-index

116156

66
g-index

140
all docs

140
docs citations

140
times ranked

6350
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of automatic decision-support systems for detecting active T2 lesions in multiple sclerosis patients. <i>Multiple Sclerosis Journal</i> , 2022, 28, 1209-1218.	1.4	4
2	Deep Learning for Medical Imaging. , 2022, , 11-54.		0
3	Generating Longitudinal Atrophy Evaluation Datasets on Brain Magnetic Resonance Images Using Convolutional Neural Networks and Segmentation Priors. <i>Neuroinformatics</i> , 2021, 19, 477-492.	1.5	5
4	Evaluating the Effect of Intensity Standardisation on Longitudinal Whole Brain Atrophy Quantification in Brain Magnetic Resonance Imaging. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1773.	1.3	2
5	Transductive Transfer Learning for Domain Adaptation in Brain Magnetic Resonance Image Segmentation. <i>Frontiers in Neuroscience</i> , 2021, 15, 608808.	1.4	5
6	Quantitative comparison of subcortical and ventricular volumetry derived from MPRAGE and MP2RAGE images using different brain morphometry software. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 903-914.	1.1	2
7	Assessing the Accuracy and Reproducibility of <sc>PARIETAL</sc>: A Deep Learning Brain Extraction Algorithm. <i>Journal of Magnetic Resonance Imaging</i> , 2021, , .	1.9	7
8	Hemorrhagic stroke lesion segmentation using a 3D U-Net with squeeze-and-excitation blocks. <i>Computerized Medical Imaging and Graphics</i> , 2021, 90, 101908.	3.5	21
9	A fully convolutional neural network for new T2-w lesion detection in multiple sclerosis. <i>NeuroImage: Clinical</i> , 2020, 25, 102149.	1.4	40
10	Assessment of brain volumes obtained from MP-RAGE and MP2RAGE images, quantified using different segmentation methods. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 757-767.	1.1	3
11	A fully automated pipeline for brain structure segmentation in multiple sclerosis. <i>NeuroImage: Clinical</i> , 2020, 27, 102306.	1.4	5
12	Improving the detection of autism spectrum disorder by combining structural and functional MRI information. <i>NeuroImage: Clinical</i> , 2020, 25, 102181.	1.4	59
13	Deep learning for mass detection in Full Field Digital Mammograms. <i>Computers in Biology and Medicine</i> , 2020, 121, 103774.	3.9	83
14	Acute and sub-acute stroke lesion segmentation from multimodal MRI. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 194, 105521.	2.6	35
15	Quantitative Analysis of Patch-Based Fully Convolutional Neural Networks for Tissue Segmentation on Brain Magnetic Resonance Imaging. <i>IEEE Access</i> , 2019, 7, 89986-90002.	2.6	28
16	Acute ischemic stroke lesion core segmentation in CT perfusion images using fully convolutional neural networks. <i>Computers in Biology and Medicine</i> , 2019, 115, 103487.	3.9	69
17	Supervised Domain Adaptation for Automatic Sub-cortical Brain Structure Segmentation with Minimal User Interaction. <i>Scientific Reports</i> , 2019, 9, 6742.	1.6	36
18	Standardized Assessment of Automatic Segmentation of White Matter Hyperintensities and Results of the WMH Segmentation Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2556-2568.	5.4	165

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19	Breast MRI and X-ray mammography registration using gradient values. <i>Medical Image Analysis</i> , 2019, 54, 76-87.	7.0	20
20	Multiple Sclerosis Lesion Synthesis in MRI Using an Encoder-Decoder U-NET. <i>IEEE Access</i> , 2019, 7, 25171-25184.	2.6	46
21	Brain structure segmentation in the presence of multiple sclerosis lesions. <i>NeuroImage: Clinical</i> , 2019, 22, 101709.	1.4	15
22	Deep convolutional neural networks for brain image analysis on magnetic resonance imaging: a review. <i>Artificial Intelligence in Medicine</i> , 2019, 95, 64-81.	3.8	257
23	One-shot domain adaptation in multiple sclerosis lesion segmentation using convolutional neural networks. <i>NeuroImage: Clinical</i> , 2019, 21, 101638.	1.4	91
24	GridDS: a hybrid data structure for residue computation in point set matching. <i>Machine Vision and Applications</i> , 2019, 30, 291-307.	1.7	2
25	Automatic mass detection in mammograms using deep convolutional neural networks. <i>Journal of Medical Imaging</i> , 2019, 6, 1.	0.8	114
26	A supervised framework with intensity subtraction and deformation field features for the detection of new T2-w lesions in multiple sclerosis. <i>NeuroImage: Clinical</i> , 2018, 17, 607-615.	1.4	39
27	Multimodal Breast Parenchymal Patterns Correlation Using a Patient-Specific Biomechanical Model. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 712-723.	5.4	4
28	Lesion Segmentation in Automated 3D Breast Ultrasound: Volumetric Analysis. <i>Ultrasonic Imaging</i> , 2018, 40, 97-112.	1.4	17
29	A step-by-step review on patient-specific biomechanical finite element models for breast MRI to x-ray mammography registration. <i>Medical Physics</i> , 2018, 45, e6-e31.	1.6	22
30	Objective Evaluation of Multiple Sclerosis Lesion Segmentation using a Data Management and Processing Infrastructure. <i>Scientific Reports</i> , 2018, 8, 13650.	1.6	171
31	Multi-atlas Parcellation in the Presence of Lesions: Application to Multiple Sclerosis. <i>Lecture Notes in Computer Science</i> , 2018, , 104-113.	1.0	2
32	A Method for 6D Pose Estimation of Free-Form Rigid Objects Using Point Pair Features on Range Data. <i>Sensors</i> , 2018, 18, 2678.	2.1	67
33	Automated sub-cortical brain structure segmentation combining spatial and deep convolutional features. <i>Medical Image Analysis</i> , 2018, 48, 177-186.	7.0	90
34	Mass detection in mammograms using pre-trained deep learning models. , 2018, , .		2
35	A collection of challenging motion segmentation benchmark datasets. <i>Pattern Recognition</i> , 2017, 61, 1-14.	5.1	6
36	Advanced MRI techniques: biomarkers in neuropsychiatric lupus. <i>Lupus</i> , 2017, 26, 510-516.	0.8	33

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37	Improving automated multiple sclerosis lesion segmentation with a cascaded 3D convolutional neural network approach. <i>NeuroImage</i> , 2017, 155, 159-168.	2.1	287
38	Evaluating the effect of multiple sclerosis lesions on automatic brain structure segmentation. <i>NeuroImage: Clinical</i> , 2017, 15, 228-238.	1.4	19
39	Automated tissue segmentation of MR brain images in the presence of white matter lesions. <i>Medical Image Analysis</i> , 2017, 35, 446-457.	7.0	55
40	Hierarchical Techniques to Improve Hybrid Point Cloud Registration. , 2017, , .		2
41	Automated Detection of Lupus White Matter Lesions in MRI. <i>Frontiers in Neuroinformatics</i> , 2016, 10, 33.	1.3	18
42	An SPM12 extension for multiple sclerosis lesion segmentation. , 2016, , .		2
43	Semi-automatic tool for motion annotation on complex video sequences. <i>Electronics Letters</i> , 2016, 52, 602-604.	0.5	2
44	A review on brain structures segmentation in magnetic resonance imaging. <i>Artificial Intelligence in Medicine</i> , 2016, 73, 45-69.	3.8	101
45	Improved Automatic Detection of New T2 Lesions in Multiple Sclerosis Using Deformation Fields. <i>American Journal of Neuroradiology</i> , 2016, 37, 1816-1823.	1.2	30
46	Evaluating the Effects of White Matter Multiple Sclerosis Lesions on the Volume Estimation of 6 Brain Tissue Segmentation Methods. <i>American Journal of Neuroradiology</i> , 2015, 36, 1109-1115.	1.2	12
47	Quantifying brain tissue volume in multiple sclerosis with automated lesion segmentation and filling. <i>NeuroImage: Clinical</i> , 2015, 9, 640-647.	1.4	31
48	Breast Density Analysis Using an Automatic Density Segmentation Algorithm. <i>Journal of Digital Imaging</i> , 2015, 28, 604-612.	1.6	40
49	A toolbox for multiple sclerosis lesion segmentation. <i>Neuroradiology</i> , 2015, 57, 1031-1043.	1.1	76
50	A Qualitative Review on 3D Coarse Registration Methods. <i>ACM Computing Surveys</i> , 2015, 47, 1-36.	16.1	76
51	A study on the robustness of shape descriptors to common scanning artifacts. , 2015, , .		3
52	Comparison of 10 brain tissue segmentation methods using revisited IBSR annotations. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 93-101.	1.9	76
53	Exploring three faint source detections methods for aperture synthesis radio images. <i>New Astronomy</i> , 2015, 36, 86-99.	0.8	2
54	Multiscale Distilled Sensing: Astronomical source detection in long wavelength images. <i>Astronomy and Computing</i> , 2015, 9, 10-19.	0.8	1

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55	A New Trajectory Based Motion Segmentation Benchmark Dataset (UdG-MS15). Lecture Notes in Computer Science, 2015, , 463-470.	1.0	2
56	Multi-channel registration of fractional anisotropy and T1-weighted images in the presence of atrophy: application to multiple sclerosis. Functional Neurology, 2015, 30, 245-56.	1.3	6
57	An Experimental Benchmark for Point Set Coarse Matching. , 2015, , .		3
58	BOOST: A supervised approach for multiple sclerosis lesion segmentation. Journal of Neuroscience Methods, 2014, 237, 108-117.	1.3	28
59	One-shot segmentation of breast, pectoral muscle, and background in digitised mammograms. , 2014, , .		13
60	Intensity Based Methods for Brain MRI Longitudinal Registration. A Study on Multiple Sclerosis Patients. Neuroinformatics, 2014, 12, 365-379.	1.5	13
61	A subtraction pipeline for automatic detection of new appearing multiple sclerosis lesions in longitudinal studies. Neuroradiology, 2014, 56, 363-374.	1.1	47
62	MARGA: Multispectral Adaptive Region Growing Algorithm for brain extraction on axial MRI. Computer Methods and Programs in Biomedicine, 2014, 113, 655-673.	2.6	32
63	A white matter lesion-filling approach to improve brain tissue volume measurements. NeuroImage: Clinical, 2014, 6, 86-92.	1.4	55
64	Automatic multiple sclerosis lesion detection in brain MRI by FLAIR thresholding. Computer Methods and Programs in Biomedicine, 2014, 115, 147-161.	2.6	39
65	Detecting Abnormal Mammographic Cases in Temporal Studies Using Image Registration Features. Lecture Notes in Computer Science, 2014, , 612-619.	1.0	4
66	A boosting approach for the simultaneous detection and segmentation of generic objects. Pattern Recognition Letters, 2013, 34, 1490-1498.	2.6	3
67	Joint estimation of segmentation and structure from motion. Computer Vision and Image Understanding, 2013, 117, 113-129.	3.0	17
68	A quantitative analysis of source detection approaches in optical, infrared, and radio astronomical images. Experimental Astronomy, 2013, 36, 591-629.	1.6	4
69	A supervised learning framework of statistical shape and probability priors for automatic prostate segmentation in ultrasound images. Medical Image Analysis, 2013, 17, 587-600.	7.0	46
70	Multiscale distilled sensing: A source detection method for infrared and radio astronomical images. , 2013, , .		0
71	A Supervised Approach for Multiple Sclerosis Lesion Segmentation Using Context Features and an Outlier Map. Lecture Notes in Computer Science, 2013, , 782-789.	1.0	1
72	Joint probability of shape and image similarities to retrieve 2D TRUS-MR slice correspondence for prostate biopsy. , 2012, 2012, 5416-9.		2

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73	A coupled schema of probabilistic atlas and statistical shape and appearance model for 3D prostate segmentation in MR images. , 2012, , .		2
74	Spectral clustering of shape and probability prior models for automatic prostate segmentation. , 2012, 2012, 2335-8.		4
75	Weighted likelihood function of multiple statistical parameters to retrieve 2D TRUS-MR slice correspondence for prostate biopsy. , 2012, , .		1
76	Semiautomatic labeling of generic objects for enlarging annotated image databases. , 2012, , .		0
77	A hybrid framework of multiple active appearance models and global registration for 3D prostate segmentation in MRI. , 2012, , .		7
78	A shape-based statistical method to retrieve 2D TRUS-MR slice correspondence for prostate biopsy. , 2012, , .		2
79	A spline-based non-linear diffeomorphism for multimodal prostate registration. Medical Image Analysis, 2012, 16, 1259-1279.	7.0	37
80	A survey of prostate segmentation methodologies in ultrasound, magnetic resonance and computed tomography images. Computer Methods and Programs in Biomedicine, 2012, 108, 262-287.	2.6	168
81	Automated detection of multiple sclerosis lesions in serial brain MRI. Neuroradiology, 2012, 54, 787-807.	1.1	76
82	Prostate multimodality image registration based on B-splines and quadrature local energy. International Journal of Computer Assisted Radiology and Surgery, 2012, 7, 445-454.	1.7	13
83	Segmentation of multiple sclerosis lesions in brain MRI: A review of automated approaches. Information Sciences, 2012, 186, 164-185.	4.0	182
84	Automatic microcalcification and cluster detection for digital and digitised mammograms. Knowledge-Based Systems, 2012, 28, 68-75.	4.0	91
85	A review of source detection approaches in astronomical images. Monthly Notices of the Royal Astronomical Society, 2012, 422, 1674-1689.	1.6	41
86	Statistical shape and texture model of quadrature phase information for prostate segmentation. International Journal of Computer Assisted Radiology and Surgery, 2012, 7, 43-55.	1.7	14
87	A Supervised Learning Framework for Automatic Prostate Segmentation in Trans Rectal Ultrasound Images. Lecture Notes in Computer Science, 2012, , 190-200.	1.0	6
88	A probabilistic framework for automatic prostate segmentation with a statistical model of shape and appearance. , 2011, , .		7
89	Statistical Shape and Probability Prior Model for Automatic Prostate Segmentation. , 2011, , .		2
90	Simultaneous motion segmentation and Structure from Motion. , 2011, , .		4

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91	Feature extraction for underwater visual SLAM. , 2011, , .		33
92	A Non-Linear Diffeomorphic Framework for Prostate Multimodal Registration. , 2011, , .		3
93	Revisiting Intensity-Based Image Registration Applied to Mammography. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 716-725.	3.6	36
94	A review of atlas-based segmentation for magnetic resonance brain images. Computer Methods and Programs in Biomedicine, 2011, 104, e158-e177.	2.6	336
95	Enhanced Local Subspace Affinity for feature-based motion segmentation. Pattern Recognition, 2011, 44, 454-470.	5.1	36
96	Reconstruction of non-rigid 3D shapes from stereo-motion. Pattern Recognition Letters, 2011, 32, 1020-1028.	2.6	9
97	Segmenting extended structures in radio astronomical images by filtering bright compact sources and using wavelets decomposition. , 2011, , .		6
98	Simultaneous detection and segmentation for generic objects. , 2011, , .		4
99	Prostate segmentation with local binary patterns guided active appearance models. , 2011, , .		9
100	A comparison of thin-plate splines with automatic correspondences and B-splines with uniform grids for multimodal prostate registration. Proceedings of SPIE, 2011, , .	0.8	4
101	Adaptive Motion Segmentation Algorithm Based on the Principal Angles Configuration. Lecture Notes in Computer Science, 2011, , 15-26.	1.0	13
102	SLAM based Selective Submap Joining for the Victoria Park Dataset. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 557-562.	0.4	1
103	Non-rigid metric reconstruction from perspective cameras. Image and Vision Computing, 2010, 28, 1339-1353.	2.7	14
104	A Statistical Approach for Breast Density Segmentation. Journal of Digital Imaging, 2010, 23, 527-537.	1.6	48
105	A state of the art in structured light patterns for surface profilometry. Pattern Recognition, 2010, 43, 2666-2680.	5.1	691
106	Detecting Faint Compact Sources Using Local Features and a Boosting Approach. , 2010, , .		4
107	Feature based slam using side-scan salient objects. , 2010, , .		14
108	A supervised micro-calcification detection approach in digitised mammograms. , 2010, , .		4

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109	Selective Submap Joining for underwater large scale 6-DOF SLAM. , 2010, , .		7
110	Multimodal Prostate Registration Using Thin-Plate Splines from Automatic Correspondences. , 2010, , .		5
111	Automatic Diagnosis of Masses by Using Level set Segmentation and Shape Description. , 2010, , .		6
112	Local map update for large scale SLAM. Electronics Letters, 2010, 46, 564.	0.5	5
113	A Thin-Plate Spline Based Multimodal Prostate Registration with Optimal Correspondences. , 2010, , .		10
114	Texture Guided Active Appearance Model Propagation for Prostate Segmentation. Lecture Notes in Computer Science, 2010, , 111-120.	1.0	11
115	Prostate Segmentation with Texture Enhanced Active Appearance Model. , 2010, , .		12
116	Comparison of registration methods using mamographic images. , 2010, , .		8
117	Influence of Using Manual or Automatic Breast Density Information in a Mass Detection CAD System. Academic Radiology, 2010, 17, 877-883.	1.3	13
118	A Boosting Based Approach for Automatic Micro-calcification Detection. Lecture Notes in Computer Science, 2010, , 251-258.	1.0	4
119	Enhanced Model Selection for motion segmentation. , 2009, , .		4
120	Rank estimation of trajectory matrix in motion segmentation. Electronics Letters, 2009, 45, 540.	0.5	1
121	A textural approach for mass false positive reduction in mammography. Computerized Medical Imaging and Graphics, 2009, 33, 415-422.	3.5	80
122	Breast Density Segmentation: A Comparison of Clustering and Region Based Techniques. Lecture Notes in Computer Science, 2008, , 9-16.	1.0	17
123	Recovering Euclidean deformable models from stereo-motion. , 2008, , .		2
124	Overview of surface registration techniques including loop minimization for three-dimensional modeling and visual inspection. Journal of Electronic Imaging, 2008, 17, 031103.	0.5	5
125	Eigendetection of masses considering false positive reduction and breast density information. Medical Physics, 2008, 35, 1840-1853.	1.6	22
126	Segmentation of Rigid Motion from Non-rigid 2D Trajectories. Lecture Notes in Computer Science, 2007, , 491-498.	1.0	1

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127	False Positive Reduction in Breast Mass Detection Using Two-Dimensional PCA. Lecture Notes in Computer Science, 2007, , 154-161.	1.0	11
128	False Positive Reduction in Mammographic Mass Detection Using Local Binary Patterns. , 2007, 10, 286-293.		66
129	Euclidean Reconstruction of Deformable Structure Using a Perspective Camera with Varying Intrinsic Parameters. , 2006, , .		2
130	Surface texture recognition by surface rendering. Optical Engineering, 2005, 44, 037001.	0.5	2
131	Non-rigid Face Modelling Using Shape Priors. Lecture Notes in Computer Science, 2005, , 97-108.	1.0	15
132	Non-rigid 3D Factorization for Projective Reconstruction. , 2005, , .		22
133	Colour Texture Segmentation by Region-Boundary Cooperation. Lecture Notes in Computer Science, 2004, , 250-261.	1.0	12
134	Image Texture Prediction Using Colour Photometric Stereo. Lecture Notes in Computer Science, 2002, , 355-363.	1.0	1
135	Non-Rigid Metric Shape and Motion Recovery from Uncalibrated Images Using Priors. , 0, , .		51