

Robert MartÃ-

List of Publications by Year in descending order

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115
papers

4,258
citations

212478

28
h-index

134545

62
g-index

120
all docs

120
docs citations

120
times ranked

4722
citing authors

#	ARTICLE	IF	CITATIONS
1	A U-Net Ensemble for breast lesion segmentation in DCE MRI. Computers in Biology and Medicine, 2022, 140, 105093.	3.9	26
2	DermoExpert: Skin lesion classification using a hybrid convolutional neural network through segmentation, transfer learning, and augmentation. Informatics in Medicine Unlocked, 2022, 28, 100819.	1.9	57
3	Deep Learning in Mammography Breast Cancer Detection. , 2022, , 1287-1300.		0
4	Challenges of deep learning methods for COVID-19 detection using public datasets. Informatics in Medicine Unlocked, 2022, 30, 100945.	1.9	17
5	Usefulness of Collaborative Work in the Evaluation of Prostate Cancer from MRI. Clinics and Practice, 2022, 12, 350-362.	0.6	2
6	DRNet: Segmentation and localization of optic disc and Fovea from diabetic retinopathy image. Artificial Intelligence in Medicine, 2021, 111, 102001.	3.8	58
7	Deep Learning Based Segmentation of Breast Lesions in DCE-MRI. Lecture Notes in Computer Science, 2021, , 417-430.	1.0	3
8	Lessons from the first DBTex Challenge. Nature Machine Intelligence, 2021, 3, 735-736.	8.3	8
9	Visual Attention and Color Cues for 6D Pose Estimation on Occluded Scenarios Using RGB-D Data. Sensors, 2021, 21, 8090.	2.1	1
10	Breast ultrasound region of interest detection and lesion localisation. Artificial Intelligence in Medicine, 2020, 107, 101880.	3.8	69
11	DSNet: Automatic dermoscopic skin lesion segmentation. Computers in Biology and Medicine, 2020, 120, 103738.	3.9	105
12	Deep learning for mass detection in Full Field Digital Mammograms. Computers in Biology and Medicine, 2020, 121, 103774.	3.9	83
13	Breast MRI and X-ray mammography registration using gradient values. Medical Image Analysis, 2019, 54, 76-87.	7.0	20
14	Deep convolutional neural networks for brain image analysis on magnetic resonance imaging: a review. Artificial Intelligence in Medicine, 2019, 95, 64-81.	3.8	257
15	Automatic mass detection in mammograms using deep convolutional neural networks. Journal of Medical Imaging, 2019, 6, 1.	0.8	114
16	Special Section Guest Editorial: Advances in Breast Imaging. Journal of Medical Imaging, 2019, 6, 1.	0.8	0
17	Automated Spirometry Quality Assurance: Supervised Learning From Multiple Experts. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 276-284.	3.9	12
18	Multimodal Breast Parenchymal Patterns Correlation Using a Patient-Specific Biomechanical Model. IEEE Transactions on Medical Imaging, 2018, 37, 712-723.	5.4	4

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19	Lesion Segmentation in Automated 3D Breast Ultrasound: Volumetric Analysis. Ultrasonic Imaging, 2018, 40, 97-112.	1.4	17
20	A step-by-step review on patient-specific biomechanical finite element models for breast MRI to x-ray mammography registration. Medical Physics, 2018, 45, e6-e31.	1.6	22
21	Automated Breast Ultrasound Lesions Detection Using Convolutional Neural Networks. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1218-1226.	3.9	569
22	A Method for 6D Pose Estimation of Free-Form Rigid Objects Using Point Pair Features on Range Data. Sensors, 2018, 18, 2678.	2.1	67
23	6D pose estimation using an improved method based on point pair features. , 2018, , .		63
24	Breast ultrasound lesions recognition: end-to-end deep learning approaches. Journal of Medical Imaging, 2018, 6, 1.	0.8	35
25	End-to-end breast ultrasound lesions recognition with a deep learning approach. , 2018, , .		6
26	Breast tomosynthesis reconstruction using TIGRE software tool. , 2018, , .		1
27	Changes in breast density over time using automatic density measures: preliminary analysis. , 2018, , .		0
28	Mass detection in mammograms using pre-trained deep learning models. , 2018, , .		2
29	A deep learning framework for micro-calcification detection in 2D mammography and C-view. , 2018, , .		5
30	Scattered radiation in DBT geometries with flexible breast compression paddles: a Monte Carlo simulation study. Proceedings of SPIE, 2017, , .	0.8	2
31	Mapping 3D breast lesions from full-field digital mammograms using subject-specific finite element models. Proceedings of SPIE, 2017, , .	0.8	1
32	Local breast density assessment using reacquired mammographic images. European Journal of Radiology, 2017, 93, 121-127.	1.2	7
33	Computer-aided detection for prostate cancer detection based on multi-parametric magnetic resonance imaging. , 2017, 2017, 3138-3141.		24
34	Automated quality assessment in three-dimensional breast ultrasound images. Journal of Medical Imaging, 2016, 3, 027002.	0.8	12
35	Feasibility of Depth Sensors to Study Breast Deformation During Mammography Procedures. Lecture Notes in Computer Science, 2016, , 446-453.	1.0	0
36	Breast-lesion Segmentation Combining B-Mode and Elastography Ultrasound. Ultrasonic Imaging, 2016, 38, 209-224.	1.4	17

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37	Normalization of T2W-MRI prostate images using Rician a priori. Proceedings of SPIE, 2016, , .	0.8	9
38	Automated detection of breast cancer in false-negative screening MRI studies from women at increased risk. European Journal of Radiology, 2016, 85, 472-479.	1.2	23
39	A Review on Automatic Mammographic Density and Parenchymal Segmentation. International Journal of Breast Cancer, 2015, 2015, 1-31.	0.6	40
40	A boosting approach for prostate cancer detection using multi-parametric MRI. Proceedings of SPIE, 2015, , .	0.8	11
41	Breast Segmentation and Density Estimation in Breast MRI: A Fully Automatic Framework. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 349-357.	3.9	107
42	Breast Density Analysis Using an Automatic Density Segmentation Algorithm. Journal of Digital Imaging, 2015, 28, 604-612.	1.6	40
43	ProstateAnalyzer: web-based medical application for the management of prostate cancer using multiparametric MR imaging. Informatics for Health and Social Care, 2015, 41, 1-21.	1.4	6
44	Computer-Aided Detection and diagnosis for prostate cancer based on mono and multi-parametric MRI: A review. Computers in Biology and Medicine, 2015, 60, 8-31.	3.9	270
45	Automated localization of breast cancer in DCE-MRI. Medical Image Analysis, 2015, 20, 265-274.	7.0	108
46	Volumetric Breast Density Estimation from Full-Field Digital Mammograms: A Validation Study. PLoS ONE, 2014, 9, e85952.	1.1	111
47	One-shot segmentation of breast, pectoral muscle, and background in digitised mammograms. , 2014, , .		13
48	Intensity Based Methods for Brain MRI Longitudinal Registration. A Study on Multiple Sclerosis Patients. Neuroinformatics, 2014, 12, 365-379.	1.5	13
49	Breast peripheral area correction in digital mammograms. Computers in Biology and Medicine, 2014, 50, 32-40.	3.9	15
50	Computerized Detection of Breast Lesions Using Deformable Part Models in Ultrasound Images. Ultrasound in Medicine and Biology, 2014, 40, 2252-2264.	0.7	13
51	Detecting Abnormal Mammographic Cases in Temporal Studies Using Image Registration Features. Lecture Notes in Computer Science, 2014, , 612-619.	1.0	4
52	SIFT Texture Description for Understanding Breast Ultrasound Images. Lecture Notes in Computer Science, 2014, , 681-688.	1.0	6
53	Comparison of Methods for Current-to-Prior Registration of Breast DCE-MRI. Lecture Notes in Computer Science, 2014, , 689-695.	1.0	5
54	Breast segmentation in MRI: quantitative evaluation of three methods. , 2013, , .		6

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55	A supervised learning framework of statistical shape and probability priors for automatic prostate segmentation in ultrasound images. <i>Medical Image Analysis</i> , 2013, 17, 587-600.	7.0	46
56	Evaluating Lesion Segmentation on Breast Sonography as Related to Lesion Type. <i>Journal of Ultrasound in Medicine</i> , 2013, 32, 1659-1670.	0.8	15
57	Feasibility Study of Lesion Detection Using Deformable Part Models in Breast Ultrasound Images. <i>Lecture Notes in Computer Science</i> , 2013, , 269-276.	1.0	8
58	Demons Methods for Digital Mammography Registration. <i>Lecture Notes in Computer Science</i> , 2013, , 253-260.	1.0	0
59	Automatic Intra Muscular Fat Analysis on Dry-Cured Ham Slices. <i>Lecture Notes in Computer Science</i> , 2013, , 873-880.	1.0	0
60	Joint probability of shape and image similarities to retrieve 2D TRUS-MR slice correspondence for prostate biopsy. , 2012, 2012, 5416-9.		2
61	A coupled schema of probabilistic atlas and statistical shape and appearance model for 3D prostate segmentation in MR images. , 2012, , .		2
62	Spectral clustering of shape and probability prior models for automatic prostate segmentation. , 2012, 2012, 2335-8.		4
63	Weighted likelihood function of multiple statistical parameters to retrieve 2D TRUS-MR slice correspondence for prostate biopsy. , 2012, , .		1
64	A hybrid framework of multiple active appearance models and global registration for 3D prostate segmentation in MRI. , 2012, , .		7
65	A shape-based statistical method to retrieve 2D TRUS-MR slice correspondence for prostate biopsy. , 2012, , .		2
66	Lesion segmentation and bias correction in breast ultrasound B-mode images including elastography information. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
67	A spline-based non-linear diffeomorphism for multimodal prostate registration. <i>Medical Image Analysis</i> , 2012, 16, 1259-1279.	7.0	37
68	A survey of prostate segmentation methodologies in ultrasound, magnetic resonance and computed tomography images. <i>Computer Methods and Programs in Biomedicine</i> , 2012, 108, 262-287.	2.6	168
69	Segmentation of the Pectoral Muscle in Breast MRI Using Atlas-Based Approaches. <i>Lecture Notes in Computer Science</i> , 2012, 15, 371-378.	1.0	31
70	MammoApplet: An interactive Java applet tool for manual annotation in medical imaging. , 2012, , .		7
71	Automated detection of multiple sclerosis lesions in serial brain MRI. <i>Neuroradiology</i> , 2012, 54, 787-807.	1.1	76
72	Prostate multimodality image registration based on B-splines and quadrature local energy. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2012, 7, 445-454.	1.7	13

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73	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
74	Automatic Seed Placement for Breast Lesion Segmentation on US Images. Lecture Notes in Computer Science, 2012, , 308-315.	1.0	6
75	Adapting Breast Density Classification from Digitized to Full-Field Digital Mammograms. Lecture Notes in Computer Science, 2012, , 561-568.	1.0	14
76	A Supervised Learning Framework for Automatic Prostate Segmentation in Trans Rectal Ultrasound Images. Lecture Notes in Computer Science, 2012, , 190-200.	1.0	6
77	A probabilistic framework for automatic prostate segmentation with a statistical model of shape and appearance. , 2011, , .		7
78	Statistical Shape and Probability Prior Model for Automatic Prostate Segmentation. , 2011, , .		2
79	A Non-Linear Diffeomorphic Framework for Prostate Multimodal Registration. , 2011, , .		3
80	Revisiting Intensity-Based Image Registration Applied to Mammography. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 716-725.	3.6	36
81	Prostate segmentation with local binary patterns guided active appearance models. , 2011, , .		9
82	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
83	Multi-class Probabilistic Atlas-Based Segmentation Method in Breast MRI. Lecture Notes in Computer Science, 2011, , 660-667.	1.0	6
84	A Statistical Approach for Breast Density Segmentation. Journal of Digital Imaging, 2010, 23, 527-537.	1.6	48
85	A review of automatic mass detection and segmentation in mammographic images. Medical Image Analysis, 2010, 14, 87-110.	7.0	343
86	Improving a CAD system using bilateral information. , 2010, 2010, 5054-7.		2
87	A supervised micro-calcification detection approach in digitised mammograms. , 2010, , .		4
88	Multimodal Prostate Registration Using Thin-Plate Splines from Automatic Correspondences. , 2010, , .		5
89	Automatic Diagnosis of Masses by Using Level set Segmentation and Shape Description. , 2010, , .		6
90	Elastic modulus imaging using optical flow and image registration. , 2010, , .		1

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91	A Thin-Plate Spline Based Multimodal Prostate Registration with Optimal Correspondences. , 2010, , .		10
92	Texture Guided Active Appearance Model Propagation for Prostate Segmentation. Lecture Notes in Computer Science, 2010, , 111-120.	1.0	11
93	Prostate Segmentation with Texture Enhanced Active Appearance Model. , 2010, , .		12
94	Comparison of registration methods using mamographic images. , 2010, , .		8
95	Influence of Using Manual or Automatic Breast Density Information in a Mass Detection CAD System. Academic Radiology, 2010, 17, 877-883.	1.3	13
96	A textural approach for mass false positive reduction in mammography. Computerized Medical Imaging and Graphics, 2009, 33, 415-422.	3.5	80
97	Optimally discriminant moments for speckle detection in real B-scan images. Ultrasonics, 2008, 48, 169-181.	2.1	4
98	A Novel Breast Tissue Density Classification Methodology. IEEE Transactions on Information Technology in Biomedicine, 2008, 12, 55-65.	3.6	206
99	Breast Density Segmentation: A Comparison of Clustering and Region Based Techniques. Lecture Notes in Computer Science, 2008, , 9-16.	1.0	17
100	Eigendetection of masses considering false positive reduction and breast density information. Medical Physics, 2008, 35, 1840-1853.	1.6	22
101	Image Correction and Reconstruction for Breast Biopsy. Lecture Notes in Computer Science, 2008, , 545-552.	1.0	0
102	Robust speckle detection in ultrasound images: evaluation aspects. , 2007, , .		3
103	Which is the best way to organize/classify images by content?. Image and Vision Computing, 2007, 25, 778-791.	2.7	213
104	False Positive Reduction in Breast Mass Detection Using Two-Dimensional PCA. Lecture Notes in Computer Science, 2007, , 154-161.	1.0	11
105	Breast Skin-Line Segmentation Using Contour Growing. Lecture Notes in Computer Science, 2007, , 564-571.	1.0	17
106	A new approach to the classification of mamographic masses and normal breast tissue. , 2006, , .		16
107	Object and Scene Classification: what does a Supervised Approach Provide us?. , 2006, , .		10
108	A Comparison of Breast Tissue Classification Techniques. Lecture Notes in Computer Science, 2006, 9, 872-879.	1.0	19

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109	Breast Segmentation with Pectoral Muscle Suppression on Digital Mammograms. Lecture Notes in Computer Science, 2005, , 471-478.	1.0	103
110	TWO-DIMENSIONALâ€“THREE-DIMENSIONAL CORRESPONDENCE IN MAMMOGRAPHY. Cybernetics and Systems, 2004, 35, 85-105.	1.6	7
111	TWO-DIMENSIONAL-THREE-DIMENSIONAL CORRESPONDENCE IN MAMMOGRAPHY. Cybernetics and Systems, 2004, 35, 85-105.	1.6	7
112	EM Texture Segmentation of Mammographic Images. , 2003, , 223-227.		4
113	AUTOMATIC POINT CORRESPONDENCE AND REGISTRATION BASED ON LINEAR STRUCTURES. International Journal of Pattern Recognition and Artificial Intelligence, 2002, 16, 331-340.	0.7	13
114	Automated Quality Assurance Applied to Mammographic Imaging. Eurasip Journal on Advances in Signal Processing, 2002, 2002, 1.	1.0	2
115	A Mammographic Registration Framework Based on Anatomical Linear Structures. , 0, , 487-527.		0