

Julia A Schnabel

List of Publications by Year in descending order

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188
papers

6,196
citations

101543

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h-index

79698

73
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199
all docs

199
docs citations

199
times ranked

6698
citing authors

#	ARTICLE	IF	CITATIONS
1	Memory-Efficient Training for Fully Unrolled Deep Learned PET Image Reconstruction With Iteration-Dependent Targets. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 552-563.	3.7	9
2	Exploring a new paradigm for the fetal anomaly ultrasound scan: Artificial intelligence in real time. Prenatal Diagnosis, 2022, 42, 49-59.	2.3	16
3	AtrialJSQnet: A New framework for joint segmentation and quantification of left atrium and scars incorporating spatial and shape information. Medical Image Analysis, 2022, 76, 102303.	11.6	31
4	PRETUS: A plug-in based platform for real-time ultrasound imaging research. SoftwareX, 2022, 17, 100959.	2.6	4
5	Medical image analysis on left atrial LGE MRI for atrial fibrillation studies: A review. Medical Image Analysis, 2022, 77, 102360.	11.6	27
6	Improved 3D tumour definition and quantification of uptake in simulated lung tumours using deep learning. Physics in Medicine and Biology, 2022, , .	3.0	4
7	Deep Learning for PET Image Reconstruction. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 1-25.	3.7	128
8	A landmark-free morphometrics pipeline for high-resolution phenotyping: application to a mouse model of Down syndrome. Development (Cambridge), 2021, 148, .	2.5	26
9	MRI-Guided Motion-Corrected PET Image Reconstruction for Cardiac PET/MRI. Journal of Nuclear Medicine, 2021, 62, 1768-1774.	5.0	10
10	Virtual reality three-dimensional echocardiographic imaging for planning surgical atrioventricular valve repair. JTCVS Techniques, 2021, 7, 269-277.	0.4	21
11	A Virtual Reality System for Improved Image-Based Planning of Complex Cardiac Procedures. Journal of Imaging, 2021, 7, 151.	3.0	9
12	Automatic Re-orientation of 3D Echocardiographic Images in Virtual Reality Using Deep Learning. Lecture Notes in Computer Science, 2021, , 177-188.	1.3	1
13	Image-Based Artefact Removal in Laser Scanning Microscopy. IEEE Transactions on Biomedical Engineering, 2020, 67, 79-87.	4.2	1
14	Evaluation of MRI to Ultrasound Registration Methods for Brain Shift Correction: The CuRIOUS2018 Challenge. IEEE Transactions on Medical Imaging, 2020, 39, 777-786.	8.9	42
15	Fully Automated, Quality-Controlled Cardiac Analysis From CMR. JACC: Cardiovascular Imaging, 2020, 13, 684-695.	5.3	113
16	Model-Based and Data-Driven Strategies in Medical Image Computing. Proceedings of the IEEE, 2020, 108, 110-124.	21.3	30
17	Deep Learning-Based Detection and Correction of Cardiac MR Motion Artefacts During Reconstruction for High-Quality Segmentation. IEEE Transactions on Medical Imaging, 2020, 39, 4001-4010.	8.9	49
18	An objective comparison of detection and segmentation algorithms for artefacts in clinical endoscopy. Scientific Reports, 2020, 10, 2748.	3.3	41

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19	A multi-scale variational neural network for accelerating motion-compensated whole-heart 3D coronary MR angiography. <i>Magnetic Resonance Imaging</i> , 2020, 70, 155-167.	1.8	32
20	Guest Editorial: Deep Learning in Ultrasound Imaging. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 929-930.	6.3	1
21	Deep Generative Models to Simulate 2D Patient-Specific Ultrasound Images in Real Time. <i>Communications in Computer and Information Science</i> , 2020, , 423-435.	0.5	1
22	Tumour subregion analysis of colorectal liver metastases using semi-automated clustering based on DCE-MRI: Comparison with histological subregions and impact on pharmacokinetic parameter analysis. <i>European Journal of Radiology</i> , 2020, 126, 108934.	2.6	5
23	A Multi-task Approach Using Positional Information for Ultrasound Placenta Segmentation. <i>Lecture Notes in Computer Science</i> , 2020, , 264-273.	1.3	8
24	Iteration-Dependent Networks and Losses for Unrolled Deep Learned FBSEM PET Image Reconstruction. , 2020, , .		2
25	Syn-Net for Synergistic Deep-Learned PET-MR Reconstruction. , 2020, , .		5
26	Regional Multi-View Learning for Cardiac Motion Analysis: Application to Identification of Dilated Cardiomyopathy Patients. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 956-966.	4.2	27
27	Magnetic Resonance Fingerprinting Using Recurrent Neural Networks. , 2019, , .		18
28	IJCARS-MICCAI 2018 special issue. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019, 14, 1461-1461.	2.8	0
29	Special issue on MICCAI 2018. <i>Medical Image Analysis</i> , 2019, 58, 101560.	11.6	1
30	Quantitative assessment of myelination patterns in preterm neonates using T2-weighted MRI. <i>Scientific Reports</i> , 2019, 9, 12938.	3.3	14
31	Explicit Topological Priors for Deep-Learning Based Image Segmentation Using Persistent Homology. <i>Lecture Notes in Computer Science</i> , 2019, , 16-28.	1.3	39
32	Automatic CNN-based detection of cardiac MR motion artefacts using k-space data augmentation and curriculum learning. <i>Medical Image Analysis</i> , 2019, 55, 136-147.	11.6	71
33	Patch-based lung ventilation estimation using multi-layer supervoxels. <i>Computerized Medical Imaging and Graphics</i> , 2019, 74, 49-60.	5.8	5
34	Weakly Supervised Estimation of Shadow Confidence Maps in Fetal Ultrasound Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2755-2767.	8.9	38
35	Left-Ventricle Quantification Using Residual U-Net. <i>Lecture Notes in Computer Science</i> , 2019, , 371-380.	1.3	65
36	Mechanically Powered Motion Imaging Phantoms: Proof of Concept. , 2019, 2019, 2723-2726.		0

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37	Virtual linear measurement system for accurate quantification of medical images. Healthcare Technology Letters, 2019, 6, 220-225.	3.3	7
38	Segmentation of Vasculature From Fluorescently Labeled Endothelial Cells in Multi-Photon Microscopy Images. IEEE Transactions on Medical Imaging, 2019, 38, 1-10.	8.9	22
39	Global and Local Interpretability for Cardiac MRI Classification. Lecture Notes in Computer Science, 2019, , 656-664.	1.3	27
40	Detection and Correction of Cardiac MRI Motion Artefacts During Reconstruction from k-space. Lecture Notes in Computer Science, 2019, , 695-703.	1.3	16
41	Towards Whole Placenta Segmentation at Late Gestation Using Multi-view Ultrasound Images. Lecture Notes in Computer Science, 2019, , 628-636.	1.3	11
42	Synthesising Images and Labels Between MR Sequence Types with CycleGAN. Lecture Notes in Computer Science, 2019, , 45-53.	1.3	5
43	Complete Fetal Head Compounding from Multi-view 3D Ultrasound. Lecture Notes in Computer Science, 2019, , 384-392.	1.3	4
44	Learning Associations Between Clinical Information and Motion-Based Descriptors Using a Large Scale MR-derived Cardiac Motion Atlas. Lecture Notes in Computer Science, 2019, , 94-102.	1.3	0
45	Image Reconstruction in a Manifold of Image Patches: Application to Whole-Fetus Ultrasound Imaging. Lecture Notes in Computer Science, 2019, , 226-235.	1.3	7
46	Multiview Machine Learning Using an Atlas of Cardiac Cycle Motion. Lecture Notes in Computer Science, 2018, , 3-11.	1.3	3
47	A DCE-MRI Driven 3-D Reaction-Diffusion Model of Solid Tumor Growth. IEEE Transactions on Medical Imaging, 2018, 37, 724-732.	8.9	37
48	A level-set approach to joint image segmentation and registration with application to CT lung imaging. Computerized Medical Imaging and Graphics, 2018, 65, 58-68.	5.8	53
49	Whole tumor kinetics analysis of 18F-fluoromisonidazole dynamic PET scans of non-small cell lung cancer patients, and correlations with perfusion CT blood flow. EJNMMI Research, 2018, 8, 73.	2.5	4
50	Deep Learning Using K-Space Based Data Augmentation for Automated Cardiac MR Motion Artefact Detection. Lecture Notes in Computer Science, 2018, , 250-258.	1.3	13
51	EchoFusion: Tracking and Reconstruction of Objects in 4D Freehand Ultrasound Imaging Without External Trackers. Lecture Notes in Computer Science, 2018, , 117-127.	1.3	2
52	Automatic Shadow Detection in 2D Ultrasound Images. Lecture Notes in Computer Science, 2018, , 66-75.	1.3	6
53	Virtual interaction and visualisation of 3D medical imaging data with VTK and Unity. Healthcare Technology Letters, 2018, 5, 148-153.	3.3	48
54	BESNet: Boundary-Enhanced Segmentation of Cells in Histopathological Images. Lecture Notes in Computer Science, 2018, , 228-236.	1.3	46

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55	Weakly Supervised Localisation for Fetal Ultrasound Images. Lecture Notes in Computer Science, 2018, , 192-200.	1.3	7
56	Cardiac MR Motion Artefact Correction from K-space Using Deep Learning-Based Reconstruction. Lecture Notes in Computer Science, 2018, , 21-29.	1.3	18
57	LSTM Spatial Co-transformer Networks for Registration of 3D Fetal US and MR Brain Images. Lecture Notes in Computer Science, 2018, , 149-159.	1.3	13
58	Evaluation of 2D and 3D ultrasound tracking algorithms and impact on ultrasound-guided liver radiotherapy margins. Medical Physics, 2018, 45, 4986-5003.	3.0	43
59	Functional Parameters Derived from Magnetic Resonance Imaging Reflect Vascular Morphology in Preclinical Tumors and in Human Liver Metastases. Clinical Cancer Research, 2018, 24, 4694-4704.	7.0	14
60	Fully automated myocardial strain estimation from cine MRI using convolutional neural networks. , 2018, , .		19
61	Clinical feasibility of texture analysis in DCE MRI of patients receiving selective internal radiation therapy. European Journal of Surgical Oncology, 2018, 44, S30-S31.	1.0	1
62	Automatic left ventricular outflow tract classification for accurate cardiac MR planning. , 2018, , .		5
63	Automated CNN-Based Reconstruction of Short-Axis Cardiac MR Sequence from Real-Time Image Data. Lecture Notes in Computer Science, 2018, , 32-41.	1.3	5
64	Fast Groupwise 4D Deformable Image Registration for Irregular Breathing Motion Estimation. Lecture Notes in Computer Science, 2018, , 37-46.	1.3	2
65	GIFTed Demons: deformable image registration with local structure-preserving regularization using supervoxels for liver applications. Journal of Medical Imaging, 2018, 5, 1.	1.5	8
66	Dense volumetric detection and segmentation of mediastinal lymph nodes in chest CT images. , 2018, , .		12
67	Multi-view Image Reconstruction: Application to Fetal Ultrasound Compounding. Lecture Notes in Computer Science, 2018, , 107-116.	1.3	14
68	XeMRI to CT Lung Image Registration Enhanced with Personalized 4DCT-Derived Motion Model. Lecture Notes in Computer Science, 2018, , 260-271.	1.3	0
69	Regional lung ventilation estimation based on supervoxel tracking. , 2018, , .		1
70	15â€¦Automatic mis-triggering artefact detection for image quality assessment of cardiac MRI. , 2018, , .		0
71	Hessian-assisted supervoxel: structure-oriented voxel clustering and application to mediastinal lymph node detection from CT volumes. Proceedings of SPIE, 2017, , .	0.8	1
72	Non-local Graph-Based Regularization for Deformable Image Registration. Lecture Notes in Computer Science, 2017, , 199-207.	1.3	2

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73	Editorial for the special issue of "Computational methods for molecular imaging" for computerized medical imaging and graphics. Computerized Medical Imaging and Graphics, 2017, 60, 1-2.	5.8	0
74	Comparison of linear and nonlinear implementation of the compartmental tissue uptake model for dynamic contrast-enhanced MRI. Magnetic Resonance in Medicine, 2017, 77, 2414-2423.	3.0	13
75	Supervoxels for graph cuts-based deformable image registration using guided image filtering. Journal of Electronic Imaging, 2017, 26, 1.	0.9	8
76	Automated mediastinal lymph node detection from CT volumes based on intensity targeted radial structure tensor analysis. Journal of Medical Imaging, 2017, 4, 1.	1.5	7
77	Fast Registration of 3D Fetal Ultrasound Images Using Learned Corresponding Salient Points. Lecture Notes in Computer Science, 2017, , 33-41.	1.3	6
78	Mass Transportation for Deformable Image Registration with Application to Lung CT. Lecture Notes in Computer Science, 2017, , 66-74.	1.3	0
79	Regional Differences in End-Diastolic Volumes between 3D Echo and CMR in HLHS Patients. Frontiers in Pediatrics, 2016, 4, 133.	1.9	6
80	Regression analysis for assessment of myelination status in preterm brains with magnetic resonance imaging. , 2016, , .		2
81	A DCE-MRI imaging-based model for simulation of vascular tumour growth. , 2016, 2016, 5949-5952.		1
82	Graph Cuts-Based Registration Revisited: A Novel Approach for Lung Image Registration Using Supervoxels and Image-Guided Filtering. , 2016, , .		4
83	Tumor Growth Estimation via Registration of DCE-MRI Derived Tumor Specific Descriptors. , 2016, , .		0
84	Classification of amyloid status using machine learning with histograms of oriented 3D gradients. NeuroImage: Clinical, 2016, 12, 990-1003.	2.7	16
85	Pieces-of-parts for supervoxel segmentation with global context: Application to DCE-MRI tumour delineation. Medical Image Analysis, 2016, 32, 69-83.	11.6	20
86	Oncological image analysis. Medical Image Analysis, 2016, 33, 7-12.	11.6	9
87	Advances and challenges in deformable image registration: From image fusion to complex motion modelling. Medical Image Analysis, 2016, 33, 145-148.	11.6	50
88	Deformable image registration by combining uncertainty estimates from supervoxel belief propagation. Medical Image Analysis, 2016, 27, 57-71.	11.6	58
89	Clinical Trial of Oral Nelfinavir before and during Radiation Therapy for Advanced Rectal Cancer. Clinical Cancer Research, 2016, 22, 1922-1931.	7.0	30
90	Probabilistic non-linear registration with spatially adaptive regularisation. Medical Image Analysis, 2015, 26, 203-216.	11.6	22

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91	Filling Large Discontinuities in 3D Vascular Networks Using Skeleton- and Intensity-Based Information. Lecture Notes in Computer Science, 2015, , 157-164.	1.3	2
92	Impact of image-based motion correction on dopamine D3/D2 receptor occupancyâ€™ comparison of groupwise and frame-by-frame registration approaches. EJMIMI Physics, 2015, 2, 15.	2.7	11
93	Evaluation of automatic neonatal brain segmentation algorithms: The NeoBrainS12 challenge. Medical Image Analysis, 2015, 20, 135-151.	11.6	85
94	Liver Motion Estimation via Locally Adaptive Over-Segmentation Regularization. Lecture Notes in Computer Science, 2015, , 427-434.	1.3	8
95	Correlating Tumour Histology and ex vivo MRI Using Dense Modality-Independent Patch-Based Descriptors. Lecture Notes in Computer Science, 2015, , 137-145.	1.3	3
96	Improving In Vivo High-Resolution CT Imaging of the Tumour Vasculature in Xenograft Mouse Models through Reduction of Motion and Bone-Streak Artefacts. PLoS ONE, 2015, 10, e0128537.	2.5	4
97	Registration and Segmentation in Medical Imaging. Studies in Computational Intelligence, 2014, , 137-156.	0.9	7
98	Automated Colorectal Tumour Segmentation in DCE-MRI Using Supervoxel Neighbourhood Contrast Characteristics. Lecture Notes in Computer Science, 2014, 17, 609-616.	1.3	18
99	Spatio-temporal pharmacokinetic model based registration of 4D PET neuroimaging data. NeuroImage, 2014, 84, 225-235.	4.2	12
100	An implicit sliding-motion preserving regularisation via bilateral filtering for deformable image registration. Medical Image Analysis, 2014, 18, 1299-1311.	11.6	69
101	A New Similarity Metric for Groupwise Registration of Variable Flip Angle Sequences for Improved T10 Estimation in DCE-MRI. Lecture Notes in Computer Science, 2014, , 154-163.	1.3	5
102	Non-parametric Discrete Registration with Convex Optimisation. Lecture Notes in Computer Science, 2014, , 51-61.	1.3	26
103	An MRF-Based Discrete Optimization Framework for Combined DCE-MRI Motion Correction and Pharmacokinetic Parameter Estimation. Lecture Notes in Computer Science, 2014, , 73-84.	1.3	1
104	Oral nelfinavir before and during radiation therapy for rectal cancer: Changes in tumor perfusion and correlation between tissue and radiological markers of response.. Journal of Clinical Oncology, 2014, 32, 491-491.	1.6	1
105	Motion Correction of Intravital Microscopy of Preclinical Lung Tumour Imaging Using Multichannel Structural Image Descriptor. Lecture Notes in Computer Science, 2014, , 164-173.	1.3	1
106	Multispectral Image Registration Based on Local Canonical Correlation Analysis. Lecture Notes in Computer Science, 2014, 17, 202-209.	1.3	7
107	A Semi-automated Toolkit for Analysis of Liver Cancer Treatment Response Using Perfusion CT. Lecture Notes in Computer Science, 2014, , 23-32.	1.3	0
108	Hybrid Feature-Based Diffeomorphic Registration for Tumor Tracking in 2-D Liver Ultrasound Images. IEEE Transactions on Medical Imaging, 2013, 32, 1647-1656.	8.9	37

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109	Registration of 3D fetal neurosonography and MRI. <i>Medical Image Analysis</i> , 2013, 17, 1137-1150.	11.6	29
110	Piecewise-diffeomorphic image registration: Application to the motion estimation between 3D CT lung images with sliding conditions. <i>Medical Image Analysis</i> , 2013, 17, 182-193.	11.6	68
111	Breast Image Analysis for Risk Assessment, Detection, Diagnosis, and Treatment of Cancer. <i>Annual Review of Biomedical Engineering</i> , 2013, 15, 327-357.	12.3	175
112	Ensemble Learning Incorporating Uncertain Registration. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 748-756.	8.9	19
113	MRF-Based Deformable Registration and Ventilation Estimation of Lung CT. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 1239-1248.	8.9	208
114	Realistic biomechanical model of a cancerous breast for the registration of prone to supine deformations. , 2013, 2013, 7249-52.		2
115	pCT derived arterial input function for improved pharmacokinetic analysis of longitudinal dceMRI for colorectal cancer. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
116	Toward physiologically motivated registration of diagnostic CT and PET/CT of lung volumes. <i>Medical Physics</i> , 2013, 40, 021903.	3.0	13
117	Edge- and Detail-Preserving Sparse Image Representations for Deformable Registration of Chest MRI and CT Volumes. <i>Lecture Notes in Computer Science</i> , 2013, 23, 463-474.	1.3	11
118	Complex Lung Motion Estimation via Adaptive Bilateral Filtering of the Deformation Field. <i>Lecture Notes in Computer Science</i> , 2013, 16, 25-32.	1.3	9
119	A Bayesian Approach for Spatially Adaptive Regularisation in Non-rigid Registration. <i>Lecture Notes in Computer Science</i> , 2013, 16, 10-18.	1.3	11
120	Towards Realtime Multimodal Fusion for Image-Guided Interventions Using Self-similarities. <i>Lecture Notes in Computer Science</i> , 2013, 16, 187-194.	1.3	104
121	A Generalised Spatio-Temporal Registration Framework for Dynamic PET Data: Application to Neuroreceptor Imaging. <i>Lecture Notes in Computer Science</i> , 2013, 16, 211-218.	1.3	3
122	The Impact of Heterogeneity and Uncertainty on Prediction of Response to Therapy Using Dynamic MRI Data. <i>Lecture Notes in Computer Science</i> , 2013, 16, 316-323.	1.3	2
123	Rigid Registration of Untracked Freehand 2D Ultrasound Sweeps to 3D CT of Liver Tumours. <i>Lecture Notes in Computer Science</i> , 2013, , 155-164.	1.3	7
124	Towards a more realistic biomechanical modelling of breast malignant tumours. <i>Physics in Medicine and Biology</i> , 2012, 57, 631-648.	3.0	8
125	Piecewise-diffeomorphic registration of 3D CT/MR pulmonary images with sliding conditions. , 2012, , .		5
126	Textural mutual information based on cluster trees for multimodal deformable registration. , 2012, , .		5

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127	Towards 3D registration of fetal brain MRI and ultrasound. , 2012, , .		1
128	A probabilistic non-rigid registration framework using local noise estimates. , 2012, , .		1
129	Joint estimation of subject motion and tracer kinetic parameters of dynamic PET data in an EM framework. , 2012, , .		3
130	Biomedical Cancer Imaging Analysis. , 2012, , .		0
131	Probabilistic inference of regularisation in non-rigid registration. NeuroImage, 2012, 59, 2438-2451.	4.2	59
132	MIND: Modality independent neighbourhood descriptor for multi-modal deformable registration. Medical Image Analysis, 2012, 16, 1423-1435.	11.6	478
133	Reconstruction of fetal brain MRI with intensity matching and complete outlier removal. Medical Image Analysis, 2012, 16, 1550-1564.	11.6	301
134	Hybrid feature-based Log-Demons registration for tumour tracking in 2-D liver ultrasound images. , 2012, , .		11
135	Registration of 3D Fetal Brain US and MRI. Lecture Notes in Computer Science, 2012, 15, 667-674.	1.3	8
136	Globally Optimal Deformable Registration on a Minimum Spanning Tree Using Dense Displacement Sampling. Lecture Notes in Computer Science, 2012, 15, 115-122.	1.3	28
137	Spatial-temporal Pharmacokinetic Model Based Registration of 4D Brain PET Data. Lecture Notes in Computer Science, 2012, , 100-112.	1.3	2
138	Elastic registration of chest CT images with log un-biased deformations and rigidity constraint. , 2011, , .		0
139	Evaluation of Registration Methods on Thoracic CT: The EMPIRE10 Challenge. IEEE Transactions on Medical Imaging, 2011, 30, 1901-1920.	8.9	363
140	Fusion of perpendicular anisotropic MRI sequences. , 2011, , .		5
141	Segmentation of the bladder wall using coupled level set methods. , 2011, , .		15
142	On the Usage of GPUs for Efficient Motion Estimation in Medical Image Sequences. International Journal of Biomedical Imaging, 2011, 2011, 1-15.	3.9	4
143	Motion Correction and Parameter Estimation in dceMRI Sequences: Application to Colorectal Cancer. Lecture Notes in Computer Science, 2011, 14, 476-483.	1.3	28
144	Non-local Shape Descriptor: A New Similarity Metric for Deformable Multi-modal Registration. Lecture Notes in Computer Science, 2011, 14, 541-548.	1.3	22

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145	Longitudinal Brain MRI Analysis with Uncertain Registration. Lecture Notes in Computer Science, 2011, 14, 647-654.	1.3	23
146	The reconstruction of microcalcification clusters in digital breast tomosynthesis. , 2010, , .		2
147	Classification of clusters of microcalcifications in digital breast tomosynthesis. , 2010, 2010, 3166-9.		6
148	Medical Image Registration. Biological and Medical Physics Series, 2010, , 131-154.	0.4	22
149	A Biomechanical model of spiculated tumours under mammographic compressions. , 2010, 2010, 712-5.		1
150	Towards More Realistic Biomechanical Modelling of Tumours under Mammographic Compressions. Lecture Notes in Computer Science, 2010, , 481-489.	1.3	2
151	A Clustering Method for the Extraction of Microcalcifications Using Epipolar Curves in Digital Breast Tomosynthesis. Lecture Notes in Computer Science, 2010, , 682-688.	1.3	4
152	Microcalcification Detection in Digital Breast Tomosynthesis Using an Epipolar Curve Approach. Lecture Notes in Computer Science, 2010, , 704-711.	1.3	3
153	Breast Image Registration by Combining Finite Elements and Free-Form Deformations. Lecture Notes in Computer Science, 2010, , 736-743.	1.3	24
154	Overlap invariance of cumulative residual entropy measures for multimodal image alignment. Proceedings of SPIE, 2009, , .	0.8	5
155	An evaluation of four automatic methods of segmenting the subcortical structures in the brain. NeuroImage, 2009, 47, 1435-1447.	4.2	180
156	Consistency of parametric registration in serial MRI studies of brain tumor progression. International Journal of Computer Assisted Radiology and Surgery, 2008, 3, 201-211.	2.8	15
157	Correction of misaligned slices in multi-slice cardiovascular magnetic resonance using slice-to-volume registration. Journal of Cardiovascular Magnetic Resonance, 2008, 10, 13.	3.3	26
158	Accuracy assessment of global and local atrophy measurement techniques with realistic simulated longitudinal Alzheimer's disease images. NeuroImage, 2008, 42, 696-709.	4.2	32
159	Revisiting overlap invariance in medical image alignment. , 2008, , .		14
160	Objective assessment of deformable image registration in radiotherapy: A multi-institution study. Medical Physics, 2008, 35, 5944-5953.	3.0	132
161	Fusion of rat brain histology and MRI using weighted multi-image mutual information. , 2008, , .		2
162	Comparison and Evaluation of Segmentation Techniques for Subcortical Structures in Brain MRI. Lecture Notes in Computer Science, 2008, 11, 409-416.	1.3	40

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163	Quantitative evaluation of free-form deformation registration for dynamic contrast-enhanced MR mammography. <i>Medical Physics</i> , 2007, 34, 1221-1233.	3.0	36
164	A New Validation Method for X-ray Mammogram Registration Algorithms Using a Projection Model of Breast X-ray Compression. <i>IEEE Transactions on Medical Imaging</i> , 2007, 26, 1190-1200.	8.9	34
165	Accuracy Assessment of Global and Local Atrophy Measurement Techniques with Realistic Simulated Longitudinal Data. , 2007, 10, 785-792.		5
166	Phenomenological Model of Diffuse Global and Regional Atrophy Using Finite-Element Methods. <i>IEEE Transactions on Medical Imaging</i> , 2006, 25, 1417-1430.	8.9	32
167	Factors influencing the accuracy of biomechanical breast models. <i>Medical Physics</i> , 2006, 33, 1758-1769.	3.0	98
168	Simulation of Local and Global Atrophy in Alzheimer's Disease Studies. <i>Lecture Notes in Computer Science</i> , 2006, 9, 937-945.	1.3	4
169	An Inverse Problem Approach to the Estimation of Volume Change. <i>Lecture Notes in Computer Science</i> , 2005, 8, 616-623.	1.3	4
170	Registration-Based Interpolation. <i>IEEE Transactions on Medical Imaging</i> , 2004, 23, 922-926.	8.9	87
171	Slice-to-volume registration using mutual information between probabilistic image classifications. , 2004, 5370, 1120.		5
172	Myocardial delineation via registration in a polar coordinate system1. <i>Academic Radiology</i> , 2003, 10, 1349-1358.	2.5	15
173	Automatic construction of 3-D statistical deformation models of the brain using nonrigid registration. <i>IEEE Transactions on Medical Imaging</i> , 2003, 22, 1014-1025.	8.9	350
174	Validation of nonrigid image registration using finite-element methods: application to breast MR images. <i>IEEE Transactions on Medical Imaging</i> , 2003, 22, 238-247.	8.9	224
175	Myocardial Delineation via Registration in a Polar Coordinate System. <i>Lecture Notes in Computer Science</i> , 2002, , 651-658.	1.3	15
176	Comparison of biomechanical breast models: a case study. , 2002, , .		24
177	Finite-element based validation of nonrigid registration using single- and multilevel free-form deformations: application to contrast-enhanced MR mammography. , 2002, 4684, 550.		4
178	Registration-based mesh construction technique for finite-element models of brains. , 2002, , .		4
179	Quantification of small cerebral ventricular volume changes in treated growth hormone patients using nonrigid registration. <i>IEEE Transactions on Medical Imaging</i> , 2002, 21, 1292-1301.	8.9	36
180	Automatic construction of multiple-object three-dimensional statistical shape models: application to cardiac modeling. <i>IEEE Transactions on Medical Imaging</i> , 2002, 21, 1151-1166.	8.9	325

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181	A Generic Framework for Non-rigid Registration Based on Non-uniform Multi-level Free-Form Deformations. Lecture Notes in Computer Science, 2001, , 573-581.	1.3	185
182	Quantifying Small Changes in Brain Ventricular Volume Using Non-rigid Registration. Lecture Notes in Computer Science, 2001, , 49-56.	1.3	11
183	Validation of Non-rigid Registration Using Finite Element Methods. Lecture Notes in Computer Science, 2001, , 344-357.	1.3	34
184	Automatic 3D ASM Construction via Atlas-Based Landmarking and Volumetric Elastic Registration. Lecture Notes in Computer Science, 2001, , 78-91.	1.3	51
185	Nonlinear smoothing for reduction of systematic and random errors in diffusion tensor imaging. Journal of Magnetic Resonance Imaging, 2000, 11, 702-710.	3.4	116
186	Active shape focusing. Image and Vision Computing, 1999, 17, 419-428.	4.5	10
187	Nonlinear Smoothing of MR Images Using Approximate Entropy "A Local Measure of Signal Intensity Irregularity. Lecture Notes in Computer Science, 1999, , 484-489.	1.3	4
188	<title>Multiscale shape description of MR brain images using active contour models</title>. , 1996, , .		11