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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66 papers	9,214 citations	32 h-index	68 g-index
68 ext. papers	10,244 ext. citations	5 avg, IF	5.4 L-index

#	Paper	IF	Citations
66	Nonrigid registration using free-form deformations: application to breast MR images. <i>IEEE Transactions on Medical Imaging</i> , 1999 , 18, 712-21	11.7	3492
65	Medical image registration. <i>Physics in Medicine and Biology</i> , 2001 , 46, R1-45	3.8	906
64	Comparison and evaluation of retrospective intermodality brain image registration techniques. <i>Journal of Computer Assisted Tomography</i> , 1997 , 21, 554-66	2.2	608
63	A comparison of similarity measures for use in 2-D-3-D medical image registration. <i>IEEE Transactions on Medical Imaging</i> , 1998 , 17, 586-95	11.7	521
62	Automated three-dimensional registration of magnetic resonance and positron emission tomography brain images by multiresolution optimization of voxel similarity measures. <i>Medical Physics</i> , 1997 , 24, 25-35	4.4	495
61	Automated 3-D registration of MR and CT images of the head. <i>Medical Image Analysis</i> , 1996 , 1, 163-75	15.4	308
60	Respiratory motion models: a review. <i>Medical Image Analysis</i> , 2013 , 17, 19-42	15.4	251
59	Voxel similarity measures for 3-D serial MR brain image registration. <i>IEEE Transactions on Medical Imaging</i> , 2000 , 19, 94-102	11.7	207
58	Registration of freehand 3D ultrasound and magnetic resonance liver images. <i>Medical Image Analysis</i> , 2004 , 8, 81-91	15.4	170
57	Zen and the art of medical image registration: correspondence, homology, and quality. <i>NeuroImage</i> , 2003 , 20, 1425-37	7.9	153
56	Registration of MR and CT images for skull base surgery using point-like anatomical features. <i>British Journal of Radiology</i> , 1991 , 64, 1030-5	3.4	153
55	Design and evaluation of a system for microscope-assisted guided interventions (MAGI). <i>IEEE Transactions on Medical Imaging</i> , 2000 , 19, 1082-93	11.7	150
54	Voxel-based 2-D/3-D registration of fluoroscopy images and CT scans for image-guided surgery. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 1997 , 1, 284-93		118
53	MRI-based measurements of respiratory motion variability and assessment of imaging strategies for radiotherapy planning. <i>Physics in Medicine and Biology</i> , 2006 , 51, 4147-69	3.8	109
52	Accurate frameless registration of MR and CT images of the head: applications in planning surgery and radiation therapy. <i>Radiology</i> , 1994 , 191, 447-54	20.5	106
51	Sources of error in comparing functional magnetic resonance imaging and invasive electrophysiological recordings. <i>Journal of Neurosurgery</i> , 2000 , 93, 214-23	3.2	94
50	Comparison and evaluation of rigid, affine, and nonrigid registration of breast MR images. <i>Journal of Computer Assisted Tomography</i> , 1999 , 23, 800-5	2.2	87

49	Validation of a two- to three-dimensional registration algorithm for aligning preoperative CT images and intraoperative fluoroscopy images. <i>Medical Physics</i> , 2001 , 28, 1024-32	4.4	85
48	Anisotropic multi-scale fluid registration: evaluation in magnetic resonance breast imaging. <i>Physics in Medicine and Biology</i> , 2005 , 50, 5153-74	3.8	82
47	Algorithms for radiological image registration and their clinical application. <i>Journal of Anatomy</i> , 1998 , 193 (Pt 3), 347-61	2.9	79
46	Inter-fraction variations in respiratory motion models. <i>Physics in Medicine and Biology</i> , 2011 , 56, 251-72	3.8	70
45	A subject-specific technique for respiratory motion correction in image-guided cardiac catheterisation procedures. <i>Medical Image Analysis</i> , 2009 , 13, 419-31	15.4	68
44	Non-rigid registration using higher-order mutual information 2000 ,		67
43	Cadaver validation of intensity-based ultrasound to CT registration. <i>Medical Image Analysis</i> , 2006 , 10, 385-95	15.4	59
42	Tissue deformation and shape models in image-guided interventions: a discussion paper. <i>Medical Image Analysis</i> , 2005 , 9, 163-75	15.4	58
41	Validation and clinical application of computer-combined computed tomography and positron emission tomography with 2-[18F]fluoro-2-deoxy-D-glucose head and neck images. <i>American Journal of Surgery</i> , 1996 , 172, 628-32	2.7	56
40	Combined and three-dimensional rendered multimodal data for planning cranial base surgery: a prospective evaluation. <i>Neurosurgery</i> , 1994 , 35, 463-70; discussion 471	3.2	48
39	Non-rigid registration of breast MR images using mutual information. <i>Lecture Notes in Computer Science</i> , 1998 , 1144-1152	0.9	34
38	Tracking differential organ motion with a breathing multileaf collimator: magnitude of problem assessed using 4D CT data and a motion-compensation strategy. <i>Physics in Medicine and Biology</i> , 2007 , 52, 4805-26	3.8	34
37	Correcting scaling errors in tomographic images using a nine degree of freedom registration algorithm. <i>Journal of Computer Assisted Tomography</i> , 1998 , 22, 317-23	2.2	34
36	Constructing Patient Specific Models for Correcting Intraoperative Brain Deformation. <i>Lecture Notes in Computer Science</i> , 2001 , 1091-1098	0.9	33
35	Evaluation of the limits of visual detection of image misregistration in a brain fluorine-18 fluorodeoxyglucose PET-MRI study. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 1997 , 24, 642-50		32
34	An Image Registration Approach to Automated Calibration for Freehand 3D Ultrasound. <i>Lecture Notes in Computer Science</i> , 2000 , 462-471	0.9	32
33	VTK CISG Registration Toolkit An Open Source Software Package for Affine and Non-rigid Registration of Single- and Multimodal 3D Images. <i>Informatik Aktuell</i> , 2002 , 409-412	0.3	30
32	The effect of motion correction on pharmacokinetic parameter estimation in dynamic-contrast-enhanced MRI. <i>Physics in Medicine and Biology</i> , 2011 , 56, 7693-708	3.8	29

31	Assessment of a technique for 2D-3D registration of cerebral intra-arterial angiography. <i>British Journal of Radiology</i> , 2004 , 77, 123-8	3.4	28
30	Accurate combination of CT and MR data of the head: validation and applications in surgical and therapy planning. <i>Computerized Medical Imaging and Graphics</i> , 1993 , 17, 357-63	7.6	28
29	Stereo Augmented Reality in the Surgical Microscope. <i>Presence: Teleoperators and Virtual Environments</i> , 2000 , 9, 360-368	2.9	26
28	Using Points and Surfaces to Improve Voxel-Based Non-rigid Registration. <i>Lecture Notes in Computer Science</i> , 2002 , 565-572	0.9	24
27	A Stochastic Iterative Closest Point Algorithm (stochastICP). <i>Lecture Notes in Computer Science</i> , 2001 , 762-769	0.9	22
26	Motion artifact correction in free-breathing abdominal MRI using overlapping partial samples to recover image deformations. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 440-9	4.4	20
25	A Statistical Model of Respiratory Motion and Deformation of the Liver. <i>Lecture Notes in Computer Science</i> , 2001 , 1338-1340	0.9	20
24	Cadaver Validation of the Use of Ultrasound for 3D Model Instantiation of Bony Anatomy in Image Guided Orthopaedic Surgery. <i>Lecture Notes in Computer Science</i> , 2004 , 397-404	0.9	19
23	Augmentation of Reality Using an Operating Microscope for Otolaryngology and Neurosurgical Guidance. <i>Computer Aided Surgery</i> , 1995 , 1, 172-178		18
22	Validation of volume blood flow measurements using three-dimensional distance-concentration functions derived from digital x-ray angiograms. <i>Investigative Radiology</i> , 1994 , 29, 434-42	10.1	15
21	Medical image registration: an overview. <i>Imaging</i> , 2002 , 14, 455-463		14
20	Deformation for image guided interventions using a three component tissue model. <i>Lecture Notes in Computer Science</i> , 1997 , 218-231	0.9	14
19	4D motion models over the respiratory cycle for use in lung cancer radiotherapy planning 2005 ,		12
18	The registration of multiple medical images acquired from a single subject: why, how, what next?. <i>Statistical Methods in Medical Research</i> , 1997 , 6, 239-65	2.3	10
17	Bayesian Estimation of Intra-operative Deformation for Image-Guided Surgery Using 3-D Ultrasound. <i>Lecture Notes in Computer Science</i> , 2000 , 588-597	0.9	10
16	A Framework for Image-Guided Breast Surgery. <i>Lecture Notes in Computer Science</i> , 2006 , 203-210	0.9	10
15	Anisotropic behaviour of breast tissue for large compressions 2009 ,		9
14	Detection and modelling of contacts in explicit finite-element simulation of soft tissue biomechanics. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015 , 10, 1873-91	3.9	8

13	Patient-specific respiratory models using dynamic 3D MRI: preliminary volunteer results. <i>Physica Medica</i> , 2013 , 29, 214-20	2.7	7
12	Neurosurgical Guidance Using the Stereo Microscope. <i>Lecture Notes in Computer Science</i> , 1995 , 555-564	0.9	7
11	A technique for respiratory motion correction in image guided cardiac catheterisation procedures 2008 ,		6
10	White paper: validation of medical image processing in image-guided therapy 2002 , 299-305		4
9	Deforming a Preoperative Volume to Represent the Intraoperative Scene. <i>Computer Aided Surgery</i> , 2002 , 7, 63-73		3
8	Volume Rendering of Multimodal Images for the Planning of Skull Base Surgery 1993 , 574-579		3
7	Performance of image guided navigation in laparoscopic liver surgery - A systematic review. <i>Surgical Oncology</i> , 2021 , 38, 101637	2.5	3
6	Validation of Non-rigid Registration of Contrast-Enhanced MR Mammography Using Finite Element Methods. <i>Informatik Aktuell</i> , 2002 , 143-146	0.3	2
5	Algorithms for radiological image registration and their clinical application		1
4	Establishing spatial correspondence for the analysis of images from highly deforming anatomy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 3732-5	0.9	
3	Matching of geometric models in the analysis of lumen shape in digital X-ray angiography. <i>Progress in Clinical and Biological Research</i> , 1991 , 363, 341-53		
2	Image registration 1998 , 679-690		
1	Pitfalls in comparing functional magnetic resonance imaging and invasive electrophysiology recordings. <i>Lecture Notes in Computer Science</i> , 1998 , 842-852	0.9	