

D J Hawkes

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/10914468/d-j-hawkes-publications-by-year.pdf>

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Performance of image guided navigation in laparoscopic liver surgery - A systematic review. <i>Surgical Oncology</i> , 2021 , 38, 101637	2.5	3
65	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
64	Patient-specific respiratory models using dynamic 3D MRI: preliminary volunteer results. <i>Physica Medica</i> , 2013 , 29, 214-20	2.7	7
63	Respiratory motion models: a review. <i>Medical Image Analysis</i> , 2013 , 17, 19-42	15.4	251
62	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	
61	Inter-fraction variations in respiratory motion models. <i>Physics in Medicine and Biology</i> , 2011 , 56, 251-72	3.8	70
60	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
59	Anisotropic behaviour of breast tissue for large compressions 2009 ,		9
58	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
57	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
56	A technique for respiratory motion correction in image guided cardiac catheterisation procedures 2008 ,		6
55	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
54	Cadaver validation of intensity-based ultrasound to CT registration. <i>Medical Image Analysis</i> , 2006 , 10, 385-95	15.4	59
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	A Framework for Image-Guided Breast Surgery. <i>Lecture Notes in Computer Science</i> , 2006 , 203-210	0.9	10
51	4D motion models over the respiratory cycle for use in lung cancer radiotherapy planning 2005 ,		12
50	Tissue deformation and shape models in image-guided interventions: a discussion paper. <i>Medical Image Analysis</i> , 2005 , 9, 163-75	15.4	58

49	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
48	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
47	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
46	Registration of freehand 3D ultrasound and magnetic resonance liver images. <i>Medical Image Analysis</i> , 2004 , 8, 81-91	15.4	170
45	Zen and the art of medical image registration: correspondence, homology, and quality. <i>NeuroImage</i> , 2003 , 20, 1425-37	7.9	153
44	Medical image registration: an overview. <i>Imaging</i> , 2002 , 14, 455-463		14
43	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
42	Deforming a Preoperative Volume to Represent the Intraoperative Scene. <i>Computer Aided Surgery</i> , 2002 , 7, 63-73		3
41	Validation of Non-rigid Registration of Contrast-Enhanced MR Mammography Using Finite Element Methods. <i>Informatik Aktuell</i> , 2002 , 143-146	0.3	2
40	White paper: validation of medical image processing in image-guided therapy 2002 , 299-305		4
39	Using Points and Surfaces to Improve Voxel-Based Non-rigid Registration. <i>Lecture Notes in Computer Science</i> , 2002 , 565-572	0.9	24
38	Medical image registration. <i>Physics in Medicine and Biology</i> , 2001 , 46, R1-45	3.8	906
37	Constructing Patient Specific Models for Correcting Intraoperative Brain Deformation. <i>Lecture Notes in Computer Science</i> , 2001 , 1091-1098	0.9	33
36	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
35	A Stochastic Iterative Closest Point Algorithm (stochastICP). <i>Lecture Notes in Computer Science</i> , 2001 , 762-769	0.9	22
34	A Statistical Model of Respiratory Motion and Deformation of the Liver. <i>Lecture Notes in Computer Science</i> , 2001 , 1338-1340	0.9	20
33	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
32	An Image Registration Approach to Automated Calibration for Freehand 3D Ultrasound. <i>Lecture Notes in Computer Science</i> , 2000 , 462-471	0.9	32

31	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
30	Non-rigid registration using higher-order mutual information 2000 ,		67
29	Stereo Augmented Reality in the Surgical Microscope. <i>Presence: Teleoperators and Virtual Environments</i> , 2000 , 9, 360-368	2.9	26
28	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
27	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
26	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
25	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
24	Algorithms for radiological image registration and their clinical application. <i>Journal of Anatomy</i> , 1998 , 193 (Pt 3), 347-61	2.9	79
23	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
22	Non-rigid registration of breast MR images using mutual information. <i>Lecture Notes in Computer Science</i> , 1998 , 1144-1152	0.9	34
21	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
20	Image registration 1998 , 679-690		
19	Pitfalls in comparing functional magnetic resonance imaging and invasive electrophysiology recordings. <i>Lecture Notes in Computer Science</i> , 1998 , 842-852	0.9	
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	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
16	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
15	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
14	Comparison and evaluation of retrospective intermodality brain image registration techniques. <i>Journal of Computer Assisted Tomography</i> , 1997 , 21, 554-66	2.2	608

13	Deformation for image guided interventions using a three component tissue model. <i>Lecture Notes in Computer Science</i> , 1997 , 218-231	0.9	14
12	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
11	Automated 3-D registration of MR and CT images of the head. <i>Medical Image Analysis</i> , 1996 , 1, 163-75	15.4	308
10	Augmentation of Reality Using an Operating Microscope for Otolaryngology and Neurosurgical Guidance. <i>Computer Aided Surgery</i> , 1995 , 1, 172-178		18
9	Neurosurgical Guidance Using the Stereo Microscope. <i>Lecture Notes in Computer Science</i> , 1995 , 555-564	0.9	7
8	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
7	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
6	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
5	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
4	Volume Rendering of Multimodal Images for the Planning of Skull Base Surgery 1993 , 574-579		3
3	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
2	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		
1	Algorithms for radiological image registration and their clinical application		1