

# D J Hawkes

## List of Publications by Year in descending order

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66  
papers

11,589  
citations

101535

36  
h-index

144002

57  
g-index

68  
all docs

68  
docs citations

68  
times ranked

9484  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonrigid registration using free-form deformations: application to breast MR images. IEEE Transactions on Medical Imaging, 1999, 18, 712-721.	8.9	4,317
2	Medical image registration. Physics in Medicine and Biology, 2001, 46, R1-R45.	3.0	1,348
3	Comparison and Evaluation of Retrospective Intermodality Brain Image Registration Techniques. Journal of Computer Assisted Tomography, 1997, 21, 554-568.	0.9	743
4	A comparison of similarity measures for use in 2-D-3-D medical image registration. IEEE Transactions on Medical Imaging, 1998, 17, 586-595.	8.9	646
5	Automated three-dimensional registration of magnetic resonance and positron emission tomography brain images by multiresolution optimization of voxel similarity measures. Medical Physics, 1997, 24, 25-35.	3.0	613
6	Automated 3-D registration of MR and CT images of the head. Medical Image Analysis, 1996, 1, 163-175.	11.6	365
7	Respiratory motion models: A review. Medical Image Analysis, 2013, 17, 19-42.	11.6	320
8	Voxel similarity measures for 3-D serial MR brain image registration. IEEE Transactions on Medical Imaging, 2000, 19, 94-102.	8.9	240
9	Registration of freehand 3D ultrasound and magnetic resonance liver images. Medical Image Analysis, 2004, 8, 81-91.	11.6	207
10	Registration of MR and CT images for skull base surgery using point-like anatomical features. British Journal of Radiology, 1991, 64, 1030-1035.	2.2	188
11	Design and evaluation of a system for microscope-assisted guided interventions (MAGI). IEEE Transactions on Medical Imaging, 2000, 19, 1082-1093.	8.9	181
12	Zen and the art of medical image registration: correspondence, homology, and quality. NeuroImage, 2003, 20, 1425-1437.	4.2	159
13	Voxel-based 2-D/3-D registration of fluoroscopy images and CT scans for image-guided surgery. IEEE Transactions on Information Technology in Biomedicine, 1997, 1, 284-293.	3.2	144
14	Accurate frameless registration of MR and CT images of the head: applications in planning surgery and radiation therapy.. Radiology, 1994, 191, 447-454.	7.3	123
15	MRI-based measurements of respiratory motion variability and assessment of imaging strategies for radiotherapy planning. Physics in Medicine and Biology, 2006, 51, 4147-4169.	3.0	121
16	&lt;title&gt;Non-rigid registration using higher-order mutual information&lt;/title&gt;. Proceedings of SPIE, 2000, , .	0.8	116
17	Sources of error in comparing functional magnetic resonance imaging and invasive electrophysiological recordings. Journal of Neurosurgery, 2000, 93, 214-223.	1.6	112
18	Comparison and Evaluation of Rigid, Affine, and Nonrigid Registration of Breast MR Images. Journal of Computer Assisted Tomography, 1999, 23, 800-805.	0.9	103

#	ARTICLE	IF	CITATIONS
19	Validation of a two- to three-dimensional registration algorithm for aligning preoperative CT images and intraoperative fluoroscopy images. <i>Medical Physics</i> , 2001, 28, 1024-1032.	3.0	101
20	Anisotropic multi-scale fluid registration: evaluation in magnetic resonance breast imaging. <i>Physics in Medicine and Biology</i> , 2005, 50, 5153-5174.	3.0	95
21	Inter-fraction variations in respiratory motion models. <i>Physics in Medicine and Biology</i> , 2011, 56, 251-272.	3.0	92
22	Algorithms for radiological image registration and their clinical application. <i>Journal of Anatomy</i> , 1998, 193, 347-361.	1.5	90
23	A subject-specific technique for respiratory motion correction in image-guided cardiac catheterisation procedures. <i>Medical Image Analysis</i> , 2009, 13, 419-431.	11.6	76
24	Tissue deformation and shape models in image-guided interventions: a discussion paper. <i>Medical Image Analysis</i> , 2005, 9, 163-175.	11.6	73
25	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, 628-632.	1.8	67
26	Cadaver validation of intensity-based ultrasound to CT registration. <i>Medical Image Analysis</i> , 2006, 10, 385-395.	11.6	65
27	Combined and Three-dimensional Rendered Multimodal Data for Planning Cranial Base Surgery: A Prospective Evaluation. <i>Neurosurgery</i> , 1994, 35, 463-471.	1.1	57
28	An Image Registration Approach to Automated Calibration for Freehand 3D Ultrasound. <i>Lecture Notes in Computer Science</i> , 2000, , 462-471.	1.3	48
29	Constructing Patient Specific Models for Correcting Intraoperative Brain Deformation. <i>Lecture Notes in Computer Science</i> , 2001, , 1091-1098.	1.3	42
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, 357-363.	5.8	41
31	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.	0.6	41
32	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, 642-650.	2.1	38
33	Correcting Scaling Errors in Tomographic Images Using a Nine Degree of Freedom Registration Algorithm. <i>Journal of Computer Assisted Tomography</i> , 1998, 22, 317-323.	0.9	38
34	The effect of motion correction on pharmacokinetic parameter estimation in dynamic-contrast-enhanced MRI. <i>Physics in Medicine and Biology</i> , 2011, 56, 7693-7708.	3.0	37
35	Using Points and Surfaces to Improve Voxel-Based Non-rigid Registration. <i>Lecture Notes in Computer Science</i> , 2002, , 565-572.	1.3	37
36	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, 4805-4826.	3.0	36

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37	Stereo Augmented Reality in the Surgical Microscope. Presence: Teleoperators and Virtual Environments, 2000, 9, 360-368.	0.6	34
38	A Statistical Model of Respiratory Motion and Deformation of the Liver. Lecture Notes in Computer Science, 2001, , 1338-1340.	1.3	32
39	Assessment of a technique for 2Dâ€“3D registration of cerebral intra-arterial angiography. British Journal of Radiology, 2004, 77, 123-128.	2.2	30
40	A Stochastic Iterative Closest Point Algorithm (stochastICP). Lecture Notes in Computer Science, 2001, , 762-769.	1.3	28
41	Medical image registration: an overview. Imaging, 2002, 14, 455-463.	0.0	25
42	Deformation for image guided interventions using a three component tissue model. Lecture Notes in Computer Science, 1997, , 218-231.	1.3	25
43	Cadaver Validation of the Use of Ultrasound for 3D Model Instantiation of Bony Anatomy in Image Guided Orthopaedic Surgery. Lecture Notes in Computer Science, 2004, , 397-404.	1.3	23
44	Validation of Volume Blood Flow Measurements Using Three-Dimensional Distance-Concentration Functions Derived from Digital X-Ray Angiograms. Investigative Radiology, 1994, 29, 434-442.	6.2	22
45	Motion artifact correction in freeâ€“breathing abdominal MRI using overlapping partial samples to recover image deformations. Magnetic Resonance in Medicine, 2009, 62, 440-449.	3.0	22
46	Augmentation of Reality Using an Operating Microscope for Otolaryngology and Neurosurgical Guidance. Computer Aided Surgery, 1995, 1, 172-178.	1.8	20
47	Performance of image guided navigation in laparoscopic liver surgery â€“ A systematic review. Surgical Oncology, 2021, 38, 101637.	1.6	19
48	Synergistic imaging. European Journal of Nuclear Medicine and Molecular Imaging, 1992, 19, 1002-5.	2.1	14
49	Bayesian Estimation of Intra-operative Deformation for Image-Guided Surgery Using 3-D Ultrasound. Lecture Notes in Computer Science, 2000, , 588-597.	1.3	14
50	4D motion models over the respiratory cycle for use in lung cancer radiotherapy planning. , 2005, , .		12
51	Detection and modelling of contacts in explicit finite-element simulation of soft tissue biomechanics. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1873-1891.	2.8	11
52	The registration of multiple medical images acquired from a single subject: why, how, what next?. Statistical Methods in Medical Research, 1997, 6, 239-265.	1.5	10
53	Neurosurgical Guidance Using the Stereo Microscope. Lecture Notes in Computer Science, 1995, , 555-564.	1.3	10
54	Anisotropic behaviour of breast tissue for large compressions. , 2009, , .		9

#	ARTICLE	IF	CITATIONS
55	Patient-specific respiratory models using dynamic 3D MRI: Preliminary volunteer results. <i>Physica Medica</i> , 2013, 29, 214-220.	0.7	9
56	A technique for respiratory motion correction in image guided cardiac catheterisation procedures. , 2008, , .		7
57	White paper: validation of medical image processing in image-guided therapy. , 2002, , 299-305.		7
58	Deforming a Preoperative Volume to Represent the Intraoperative Scene. <i>Computer Aided Surgery</i> , 2002, 7, 63-73.	1.8	5
59	Volume Rendering of Multimodal Images for the Planning of Skull Base Surgery. , 1993, , 574-579.		4
60	Validation of Non-rigid Registration of Contrast-Enhanced MR Mammography Using Finite Element Methods. <i>Informatik Aktuell</i> , 2002, , 143-146.	0.6	2
61	Algorithms for radiological image registration and their clinical application. , 0, .		1
62	Volume blood flow waveforms measurements from quantitative X-ray angiographic data with aid of 3-dimensional reconstructions. , 1992, , .		0
63	Establishing spatial correspondence for the analysis of images from highly deforming anatomy. , 2012, 2012, 3732-5.		0
64	Image registration. , 1998, , 679-690.		0
65	Pitfalls in comparing functional magnetic resonance imaging and invasive electrophysiology recordings. <i>Lecture Notes in Computer Science</i> , 1998, , 842-852.	1.3	0
66	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.	0.2	0