Matthew J Clarkson

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Automatic, global registration in laparoscopic liver surgery. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 167-176.	2.8	12
2	Radiopaque drug-eluting embolisation beads as fiducial markers for stereotactic liver radiotherapy. British Journal of Radiology, 2022, 95, 20210594.	2.2	2
3	Voice-Assisted Image Labeling for Endoscopic Ultrasound Classification Using Neural Networks. IEEE Transactions on Medical Imaging, 2022, 41, 1311-1319.	8.9	9
4	Utility of optical see-through head mounted displays in augmented reality-assisted surgery: A systematic review. Medical Image Analysis, 2022, 77, 102361.	11.6	39
5	Gesture Recognition in Robotic Surgery With Multimodal Attention. IEEE Transactions on Medical Imaging, 2022, 41, 1677-1687.	8.9	16
6	Detection of Microcalcifications in Digital Breast Tomosynthesis using Faster R-CNN and 3D Volume Rendering. , 2022, , .		0
7	Large scale simulation of labeled intraoperative scenes in unity. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 961-963.	2.8	3
8	SciKit-SurgeryGlenoid, an open source toolkit for glenoid version measurement. , 2022, , .		0
9	Deep hashing for global registration of untracked 2D laparoscopic ultrasound to CT. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 1461-1468.	2.8	2
10	Phase 0 study of vandetanib-eluting radiopaque embolics as a pre-operative embolization treatment in patients with resectable liver malignancies. Journal of Vascular and Interventional Radiology, 2022, , .	0.5	0
11	Probabilistic landscape of seizure semiology localizing values. Brain Communications, 2022, 4, .	3.3	7
12	Cross-Modality Image Registration Using a Training-Time Privileged Third Modality. IEEE Transactions on Medical Imaging, 2022, 41, 3421-3431.	8.9	0
13	CMakeCatchTemplate: A C++ template project. Journal of Open Research Software, 2021, 9, 17.	5.9	0
14	Zero-Shot Super-Resolution With a Physically-Motivated Downsampling Kernel for Endomicroscopy. IEEE Transactions on Medical Imaging, 2021, 40, 1863-1874.	8.9	9
15	Are fiducial registration error and target registration error correlated? SciKit-SurgeryFRED for teaching and research. , 2021, 11598, .		2
16	Machine Learning for Localizing Epileptogenic-Zone in the Temporal Lobe: Quantifying the Value of Multimodal Clinical-Semiology and Imaging Concordance. Frontiers in Digital Health, 2021, 3, 559103.	2.8	9
17	Registration of Untracked 2D Laparoscopic Ultrasound to CT Images of the Liver Using Multi-Labelled Content-Based Image Retrieval. IEEE Transactions on Medical Imaging, 2021, 40, 1042-1054.	8.9	18
18	Integrated multi-modality image-guided navigation for neurosurgery: open-source software platform using state-of-the-art clinical hardware. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1347-1356.	2.8	4

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19	Vessel segmentation for automatic registration of untracked laparoscopic ultrasound to CT of the liver. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1151-1160.	2.8	8
20	Gesture Recognition in Robotic Surgery: A Review. IEEE Transactions on Biomedical Engineering, 2021, 68, 2021-2035.	4.2	58
21	Endoscopic Ultrasound Image Synthesis Using a Cycle-Consistent Adversarial Network. Lecture Notes in Computer Science, 2021, , 169-178.	1.3	1
22	Optimization of Breast Tomosynthesis Visualization through 3D Volume Rendering. Journal of Imaging, 2020, 6, 64.	3.0	0
23	An Enhanced Visualization of DBT Imaging Using Blind Deconvolution and Total Variation Minimization Regularization. IEEE Transactions on Medical Imaging, 2020, 39, 4094-4101.	8.9	7
24	Multi-Task Recurrent Neural Network for Surgical Gesture Recognition and Progress Prediction. , 2020, , .		27
25	SciKit-Surgery: compact libraries for surgical navigation. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 1075-1084.	2.8	19
26	Learning from irregularly sampled data for endomicroscopy super-resolution: a comparative study of sparse and dense approaches. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 1167-1175.	2.8	9
27	Intraoperative Liver Surface Completion with Graph Convolutional VAE. Lecture Notes in Computer Science, 2020, , 198-207.	1.3	7
28	DeepReg: a deep learning toolkit for medical image registration. Journal of Open Source Software, 2020, 5, 2705.	4.6	19
29	Calculation of transfer functions for volume rendering of breast tomosynthesis imaging. , 2020, , .		0
30	Generating Large Labeled Data Sets for Laparoscopic Image Processing Tasks Using Unpaired Image-to-Image Translation. Lecture Notes in Computer Science, 2019, , 119-127.	1.3	43
31	Registration of Untracked 2D Laparoscopic Ultrasound Liver Images to CT Using Content-Based Retrieval and Kinematic Priors. Lecture Notes in Computer Science, 2019, , 11-19.	1.3	2
32	More Unlabelled Data or Label More Data? A Study on Semi-supervised Laparoscopic Image Segmentation. Lecture Notes in Computer Science, 2019, , 173-180.	1.3	9
33	VEROnA Protocol: A Pilot, Open-Label, Single-Arm, Phase 0, Window-of-Opportunity Study of Vandetanib-Eluting Radiopaque Embolic Beads (BTG-002814) in Patients With Resectable Liver Malignancies. JMIR Research Protocols, 2019, 8, e13696.	1.0	4
34	In vivo estimation of target registration errors during augmented reality laparoscopic surgery. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 865-874.	2.8	38
35	Automatic Multi-Organ Segmentation on Abdominal CT With Dense V-Networks. IEEE Transactions on Medical Imaging, 2018, 37, 1822-1834.	8.9	436
36	Determination of optimal ultrasound planes for the initialisation of image registration during endoscopic ultrasound-guided procedures. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 875-883.	2.8	6

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37	Electromagnetic tracking in imageâ€guided laparoscopic surgery: Comparison with optical tracking and feasibility study of a combined laparoscope and laparoscopic ultrasound system. Medical Physics, 2018, 45, 5094-5104.	3.0	20
38	Automatic segmentation of stereoelectroencephalography (SEEG) electrodes post-implantation considering bending. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 935-946.	2.8	24
39	Global rigid registration of CT to video in laparoscopic liver surgery. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 947-956.	2.8	29
40	A pre-operative planning framework for global registration of laparoscopic ultrasound to CT images. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1177-1186.	2.8	11
41	Augmented reality needle ablation guidance tool for irreversible electroporation in the pancreas. , 2018, , .		19
42	Deep residual networks for automatic segmentation of laparoscopic videos of the liver. Proceedings of SPIE, 2017, , .	0.8	15
43	Breathing motion compensated registration of laparoscopic liver ultrasound to CT. Proceedings of SPIE, 2017, , .	0.8	4
44	Intelligent viewpoint selection for efficient CT to video registration in laparoscopic liver surgery. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1079-1088.	2.8	16
45	On pattern selection for laparoscope calibration. Proceedings of SPIE, 2017, , .	0.8	1
46	Towards Image-Guided Pancreas and Biliary Endoscopy: Automatic Multi-organ Segmentation on Abdominal CT with Dense Dilated Networks. Lecture Notes in Computer Science, 2017, , 728-736.	1.3	28
47	Identification and removal of laser-induced noise in photoacoustic imaging using singular value decomposition. Biomedical Optics Express, 2017, 8, 68.	2.9	38
48	Assessment of Electromagnetic Tracking Accuracy for Endoscopic Ultrasound. Lecture Notes in Computer Science, 2017, , 36-47.	1.3	4
49	GIFT-Grab: Real-time C++ and Python Multi-channel Video Capture, Processing and Encoding API. Journal of Open Research Software, 2017, 5, .	5.9	0
50	Hand–eye calibration for rigid laparoscopes using an invariant point. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 1071-1080.	2.8	36
51	Utilizing confocal laser endomicroscopy for evaluating the adequacy of laparoscopic liver ablation. Lasers in Surgery and Medicine, 2016, 48, 299-310.	2.1	10
52	Accuracy validation of an image guided laparoscopy system for liver resection. Proceedings of SPIE, 2015, , .	0.8	16
53	The NifTK software platform for image-guided interventions: platform overview and NiftyLink messaging. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 301-316.	2.8	36
54	Locally rigid, vessel-based registration for laparoscopic liver surgery. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1951-1961.	2.8	32

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55	A Computer Assisted Planning System for the Placement of sEEG Electrodes in the Treatment of Epilepsy. Lecture Notes in Computer Science, 2014, , 118-127.	1.3	23
56	Fast Semi-dense Surface Reconstruction from Stereoscopic Video in Laparoscopic Surgery. Lecture Notes in Computer Science, 2014, , 206-215.	1.3	16
57	Genetic Influences on Atrophy Patterns in Familial Alzheimer's Disease: A Comparison of APP and PSEN1 Mutations. Journal of Alzheimer's Disease, 2013, 35, 199-212.	2.6	36
58	Rates of Hemispheric and Lobar Atrophy in the Language Variants of Frontotemporal Lobar Degeneration. Journal of Alzheimer's Disease, 2012, 30, 407-411.	2.6	47
59	An event-based model for disease progression and its application in familial Alzheimer's disease and Huntington's disease. Neurolmage, 2012, 60, 1880-1889.	4.2	192
60	Cortical Folding Analysis on Patients with Alzheimer's Disease and Mild Cognitive Impairment. Lecture Notes in Computer Science, 2012, 15, 289-296.	1.3	9
61	Cross-sectional analysis using voxel or surface based cortical thickness methods: A comparison study. , 2011, , .		0
62	LoAd: A locally adaptive cortical segmentation algorithm. NeuroImage, 2011, 56, 1386-1397.	4.2	81
63	A comparison of voxel and surface based cortical thickness estimation methods. NeuroImage, 2011, 57, 856-865.	4.2	163
64	Clinical and neuroanatomical signatures of tissue pathology in frontotemporal lobar degeneration. Brain, 2011, 134, 2565-2581.	7.6	306
65	Topologically correct cortical segmentation using Khalimsky's cubic complex framework. Proceedings of SPIE, 2011, , .	0.8	2
66	Longitudinal Cortical Thickness Estimation Using Khalimsky's Cubic Complex. Lecture Notes in Computer Science, 2011, 14, 467-475.	1.3	2
67	Reduced Cortical Thickness in the Posterior Cingulate Gyrus is Characteristic of Both Typical and Atypical Alzheimer's Disease. Journal of Alzheimer's Disease, 2010, 20, 587-598.	2.6	87
68	Locally weighted Markov random fields for cortical segmentation. , 2010, , .		2
69	Automated cross-sectional and longitudinal hippocampal volume measurement in mild cognitive impairment and Alzheimer's disease. NeuroImage, 2010, 51, 1345-1359.	4.2	224
70	Head size, age and gender adjustment in MRI studies: a necessary nuisance?. NeuroImage, 2010, 53, 1244-1255.	4.2	421
71	Progressive logopenic/phonological aphasia: Erosion of the language network. NeuroImage, 2010, 49, 984-993.	4.2	223
72	Robust atrophy rate measurement in Alzheimer's disease using multi-site serial MRI: Tissue-specific intensity normalization and parameter selection. NeuroImage, 2010, 50, 516-523.	4.2	125

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73	Combined Reconstruction and Registration of Digital Breast Tomosynthesis. Lecture Notes in Computer Science, 2010, , 760-768.	1.3	3
74	A Framework for Using Diffusion Weighted Imaging to Improve Cortical Parcellation. Lecture Notes in Computer Science, 2010, 13, 534-541.	1.3	12
75	Increasing Power to Predict Mild Cognitive Impairment Conversion to Alzheimer's Disease Using Hippocampal Atrophy Rate and Statistical Shape Models. Lecture Notes in Computer Science, 2010, 13, 125-132.	1.3	18
76	Patterns of Cortical Thickness according to APOE Genotype in Alzheimer's Disease. Dementia and Geriatric Cognitive Disorders, 2009, 28, 461-470.	1.5	38
77	Comparison of phantom and registration scaling corrections using the ADNI cohort. NeuroImage, 2009, 47, 1506-1513.	4.2	54
78	<title>Multiple 2D video/3D medical image registration algorithm</title> . , 2000, 3979, 342.		6
79	Stereo Augmented Reality in the Surgical Microscope. Presence: Teleoperators and Virtual Environments, 2000, 9, 360-368.	0.6	34
80	<title>Registration of multiple video images to preoperative CT for image-guided surgery</title> . , 1999, 3661, 14.		7