

Matthew J Clarkson

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

3,296
citations

270111

25
h-index

175968

55
g-index

85
all docs

85
docs citations

85
times ranked

6552
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Automatic, global registration in laparoscopic liver surgery. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 167-176. | 1.7 | 12 |
| 2 | Radiopaque drug-eluting embolisation beads as fiducial markers for stereotactic liver radiotherapy. British Journal of Radiology, 2022, 95, 20210594. | 1.0 | 2 |
| 3 | Voice-Assisted Image Labeling for Endoscopic Ultrasound Classification Using Neural Networks. IEEE Transactions on Medical Imaging, 2022, 41, 1311-1319. | 5.4 | 9 |
| 4 | Utility of optical see-through head mounted displays in augmented reality-assisted surgery: A systematic review. Medical Image Analysis, 2022, 77, 102361. | 7.0 | 39 |
| 5 | Gesture Recognition in Robotic Surgery With Multimodal Attention. IEEE Transactions on Medical Imaging, 2022, 41, 1677-1687. | 5.4 | 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. | 1.7 | 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. | 1.7 | 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, , . | 0.2 | 0 |
| 11 | Probabilistic landscape of seizure semiology localizing values. Brain Communications, 2022, 4, . | 1.5 | 7 |
| 12 | Cross-Modality Image Registration Using a Training-Time Privileged Third Modality. IEEE Transactions on Medical Imaging, 2022, 41, 3421-3431. | 5.4 | 0 |
| 13 | CMakeCatchTemplate: A C++ template project. Journal of Open Research Software, 2021, 9, 17. | 2.7 | 0 |
| 14 | Zero-Shot Super-Resolution With a Physically-Motivated Downsampling Kernel for Endomicroscopy. IEEE Transactions on Medical Imaging, 2021, 40, 1863-1874. | 5.4 | 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. | 1.5 | 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. | 5.4 | 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. | 1.7 | 4 |

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|----|--|-----|-----------|
| 19 | Vessel segmentation for automatic registration of untracked laparoscopic ultrasound to CT of the liver. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 1151-1160. | 1.7 | 8 |
| 20 | Gesture Recognition in Robotic Surgery: A Review. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 2021-2035. | 2.5 | 58 |
| 21 | Endoscopic Ultrasound Image Synthesis Using a Cycle-Consistent Adversarial Network. <i>Lecture Notes in Computer Science</i> , 2021, , 169-178. | 1.0 | 1 |
| 22 | Optimization of Breast Tomosynthesis Visualization through 3D Volume Rendering. <i>Journal of Imaging</i> , 2020, 6, 64. | 1.7 | 0 |
| 23 | An Enhanced Visualization of DBT Imaging Using Blind Deconvolution and Total Variation Minimization Regularization. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 4094-4101. | 5.4 | 7 |
| 24 | Multi-Task Recurrent Neural Network for Surgical Gesture Recognition and Progress Prediction. , 2020, , . | | 27 |
| 25 | SciKit-Surgery: compact libraries for surgical navigation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020, 15, 1075-1084. | 1.7 | 19 |
| 26 | Learning from irregularly sampled data for endomicroscopy super-resolution: a comparative study of sparse and dense approaches. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020, 15, 1167-1175. | 1.7 | 9 |
| 27 | Intraoperative Liver Surface Completion with Graph Convolutional VAE. <i>Lecture Notes in Computer Science</i> , 2020, , 198-207. | 1.0 | 7 |
| 28 | DeepReg: a deep learning toolkit for medical image registration. <i>Journal of Open Source Software</i> , 2020, 5, 2705. | 2.0 | 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. <i>Lecture Notes in Computer Science</i> , 2019, , 119-127. | 1.0 | 43 |
| 31 | Registration of Untracked 2D Laparoscopic Ultrasound Liver Images to CT Using Content-Based Retrieval and Kinematic Priors. <i>Lecture Notes in Computer Science</i> , 2019, , 11-19. | 1.0 | 2 |
| 32 | More Unlabelled Data or Label More Data? A Study on Semi-supervised Laparoscopic Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2019, , 173-180. | 1.0 | 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. <i>JMIR Research Protocols</i> , 2019, 8, e13696. | 0.5 | 4 |
| 34 | In vivo estimation of target registration errors during augmented reality laparoscopic surgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 865-874. | 1.7 | 38 |
| 35 | Automatic Multi-Organ Segmentation on Abdominal CT With Dense V-Networks. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1822-1834. | 5.4 | 436 |
| 36 | Determination of optimal ultrasound planes for the initialisation of image registration during endoscopic ultrasound-guided procedures. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 875-883. | 1.7 | 6 |

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|----|---|-----|-----------|
| 37 | Electromagnetic tracking in image-guided laparoscopic surgery: Comparison with optical tracking and feasibility study of a combined laparoscope and laparoscopic ultrasound system. <i>Medical Physics</i> , 2018, 45, 5094-5104. | 1.6 | 20 |
| 38 | Automatic segmentation of stereoelectroencephalography (SEEG) electrodes post-implantation considering bending. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 935-946. | 1.7 | 24 |
| 39 | Global rigid registration of CT to video in laparoscopic liver surgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 947-956. | 1.7 | 29 |
| 40 | A pre-operative planning framework for global registration of laparoscopic ultrasound to CT images. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 1177-1186. | 1.7 | 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. <i>Proceedings of SPIE</i> , 2017, , . | 0.8 | 15 |
| 43 | Breathing motion compensated registration of laparoscopic liver ultrasound to CT. <i>Proceedings of SPIE</i> , 2017, , . | 0.8 | 4 |
| 44 | Intelligent viewpoint selection for efficient CT to video registration in laparoscopic liver surgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017, 12, 1079-1088. | 1.7 | 16 |
| 45 | On pattern selection for laparoscope calibration. <i>Proceedings of SPIE</i> , 2017, , . | 0.8 | 1 |
| 46 | Towards Image-Guided Pancreas and Biliary Endoscopy: Automatic Multi-organ Segmentation on Abdominal CT with Dense Dilated Networks. <i>Lecture Notes in Computer Science</i> , 2017, , 728-736. | 1.0 | 28 |
| 47 | Identification and removal of laser-induced noise in photoacoustic imaging using singular value decomposition. <i>Biomedical Optics Express</i> , 2017, 8, 68. | 1.5 | 38 |
| 48 | Assessment of Electromagnetic Tracking Accuracy for Endoscopic Ultrasound. <i>Lecture Notes in Computer Science</i> , 2017, , 36-47. | 1.0 | 4 |
| 49 | GIFT-Grab: Real-time C++ and Python Multi-channel Video Capture, Processing and Encoding API. <i>Journal of Open Research Software</i> , 2017, 5, . | 2.7 | 0 |
| 50 | Hand-eye calibration for rigid laparoscopes using an invariant point. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016, 11, 1071-1080. | 1.7 | 36 |
| 51 | Utilizing confocal laser endomicroscopy for evaluating the adequacy of laparoscopic liver ablation. <i>Lasers in Surgery and Medicine</i> , 2016, 48, 299-310. | 1.1 | 10 |
| 52 | Accuracy validation of an image guided laparoscopy system for liver resection. <i>Proceedings of SPIE</i> , 2015, , . | 0.8 | 16 |
| 53 | The NiftyTK software platform for image-guided interventions: platform overview and NiftyLink messaging. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 301-316. | 1.7 | 36 |
| 54 | Locally rigid, vessel-based registration for laparoscopic liver surgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 1951-1961. | 1.7 | 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. | 1.0 | 23 |
| 56 | Fast Semi-dense Surface Reconstruction from Stereoscopic Video in Laparoscopic Surgery. Lecture Notes in Computer Science, 2014, , 206-215. | 1.0 | 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. | 1.2 | 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. | 1.2 | 47 |
| 59 | An event-based model for disease progression and its application in familial Alzheimer's disease and Huntington's disease. NeuroImage, 2012, 60, 1880-1889. | 2.1 | 192 |
| 60 | Cortical Folding Analysis on Patients with Alzheimer's Disease and Mild Cognitive Impairment. Lecture Notes in Computer Science, 2012, 15, 289-296. | 1.0 | 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. | 2.1 | 81 |
| 63 | A comparison of voxel and surface based cortical thickness estimation methods. NeuroImage, 2011, 57, 856-865. | 2.1 | 163 |
| 64 | Clinical and neuroanatomical signatures of tissue pathology in frontotemporal lobar degeneration. Brain, 2011, 134, 2565-2581. | 3.7 | 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. | 1.0 | 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. | 1.2 | 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. | 2.1 | 224 |
| 70 | Head size, age and gender adjustment in MRI studies: a necessary nuisance?. NeuroImage, 2010, 53, 1244-1255. | 2.1 | 421 |
| 71 | Progressive logopenic/phonological aphasia: Erosion of the language network. NeuroImage, 2010, 49, 984-993. | 2.1 | 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. | 2.1 | 125 |

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|----|--|-----|-----------|
| 73 | Combined Reconstruction and Registration of Digital Breast Tomosynthesis. Lecture Notes in Computer Science, 2010, , 760-768. | 1.0 | 3 |
| 74 | A Framework for Using Diffusion Weighted Imaging to Improve Cortical Parcellation. Lecture Notes in Computer Science, 2010, 13, 534-541. | 1.0 | 12 |
| 75 | Increasing Power to Predict Mild Cognitive Impairment Conversion to Alzheimerâ€™s Disease Using Hippocampal Atrophy Rate and Statistical Shape Models. Lecture Notes in Computer Science, 2010, 13, 125-132. | 1.0 | 18 |
| 76 | Patterns of Cortical Thickness according to APOE Genotype in Alzheimerâ€™s Disease. Dementia and Geriatric Cognitive Disorders, 2009, 28, 461-470. | 0.7 | 38 |
| 77 | Comparison of phantom and registration scaling corrections using the ADNI cohort. NeuroImage, 2009, 47, 1506-1513. | 2.1 | 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. | 0.3 | 34 |
| 80 | <title>Registration of multiple video images to preoperative CT for image-guided surgery</title>. , 1999, 3661, 14. | | 7 |