# Jamie R Mcclelland

List of Publications by Year
in descending order

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|---|---|---|---|
| 79 papers | 2,616 citations | 236612 25 h-index | 189595 50 g-index |
| 80 all docs | 80 docs citations | 80 times ranked | 3066 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Quantitative Analysis of Radiation-Associated Parenchymal Lung Change. Cancers, 2022, 14, 946. | 1.7 | 3 |
| 2 | A Novel and Automated Approach to Classify Radiation Induced Lung Tissue Damage on CT Scans. Cancers, 2022, 14, 1341. | 1.7 | 2 |
| 3 | Clinical practice vs. state-of-the-art research and future visions: Report on the 4D treatment planning workshop for particle therapy â€" Edition 2018 and 2019. Physica Medica, 2021, 82, 54-63. | 0.4 | 18 |
| 4 | Clinical use, challenges, and barriers to implementation of deformable image registration in radiotherapy â€" the need for guidance and QA tools. British Journal of Radiology, 2021, 94, 20210001. | 1.0 | 7 |
| 5 | Motion estimation and correction for simultaneous PET/MR using SIRF and CIL. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200208. | 1.6 | 8 |
| 6 | A multichannel feature-based approach for longitudinal lung CT registration in the presence of radiation induced lung damage. Physics in Medicine and Biology, 2021, 66, 175020. | 1.6 | 3 |
| 7 | Technical Note: Fourâ€dimensional deformable digital phantom for MRI sequence development. Medical Physics, 2021, 48, 5406-5413. | 1.6 | 4 |
| 8 | The impact of unscheduled gaps and iso-centre sequencing on the biologically effective dose in Gamma Knife radiosurgery. Journal of Radiosurgery and SBRT, 2021, 7, 213-221. | 0.2 | 2 |
| 9 | Consistent and invertible deformation vector fields for a breathing anthropomorphic phantom: a post-processing framework for the XCAT phantom. Physics in Medicine and Biology, 2020, 65, 165005. | 1.6 | 17 |
| 10 | Investigation of the evolution of radiation-induced lung damage using serial CT imaging and pulmonary function tests. Radiotherapy and Oncology, 2020, 148, 89-96. | 0.3 | 8 |
| 11 | Evaluation of MRI-derived surrogate signals to model respiratory motion. Biomedical Physics and Engineering Express, 2020, 6, 045015. | 0.6 | 12 |
| 12 | PET/CT Respiratory Motion Correction With a Single Attenuation Map Using NAC Derived Deformation Fields. , 2020, , . | | 3 |
| 13 | OC-0296 Validation of motion-including dose reconstruction on a ground-truth time-resolved moving anatomy. Radiotherapy and Oncology, 2019, 133, S148-S150. | 0.3 | 0 |
| 14 | OC-0413 MR-derived signals for respiratory motion models evaluated using sagittal and coronal datasets. Radiotherapy and Oncology, 2019, 133, S213-S214. | 0.3 | 1 |
| 15 | PO-0948 Predicting lung function post-RT in lung cancer using multivariate and principal component analysis. Radiotherapy and Oncology, 2019, 133, S512-S513. | 0.3 | 0 |
| 16 | EP-2067 Data driven region of interest respiratory surrogate signal extraction from CBCT data. Radiotherapy and Oncology, 2019, 133, S1139-S1140. | 0.3 | 0 |
| 17 | EP-2038 Use of deformable image registration for automatic outlining of the rectum. Radiotherapy and Oncology, 2019, 133, S1118-S1119. | 0.3 | 0 |
| 18 | Real-time intrafraction motion monitoring in external beam radiotherapy. Physics in Medicine and Biology, 2019, 64, 15TR01. | 1.6 | 130 |

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|---|---------|----|-----------| 
| 19 | Impact of Time-of-Flight on Respiratory Motion Modelling using Non-Attenuation-Corrected PET. , 2019, , . | | 2 |
| 20 | Issues in quantification of registered respiratory gated PET/CT in the lung. Physics in Medicine and Biology, 2018, 63, 015007. | 1.6 | 14 |
| 21 | Long term radiological features of radiation-induced lung damage. Radiotherapy and Oncology, 2018, 126, 300-306. | 0.3 | 18 |
| 22 | Objective CT-Based Imaging Biomarkers of Radiation-Induced Lung Damage. International Journal of Radiation Oncology Biology Physics, 2018, 102, S70-S71. | 0.4 | 0 |
| 23 | Response to Oymak et al. Radiotherapy and Oncology, 2018, 129, 613-614. | 0.3 | 0 |
| 24 | Clinical implementations of 4D pencil beam scanned particle therapy: Report on the 4D treatment planning workshop 2016 and 2017. Physica Medica, 2018, 54, 121-130. | 0.4 | 34 |
| 25 | MRI-guidance for motion management in external beam radiotherapy: current status and future challenges. Physics in Medicine and Biology, 2018, 63, 22TR03. | 1.6 | 94 |
| 26 | Novel CT-Based Objective Imaging Biomarkers of Long-Term Radiation-Induced Lung Damage. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1287-1298. | 0.4 | 7 |
| 27 | OC-0411: Investigation of MRI-derived surrogate signals for modelling respiratory motion on an MRI-Linac. Radiotherapy and Oncology, 2018, 127, S211-S212. | 0.3 | 1 |
| 28 | OC-0525: An evaluation of vocal instruction for external respiratory motion using kernel density estimation. Radiotherapy and Oncology, 2018, 127, S277-S278. | 0.3 | 0 |
| 29 | Toward adaptive radiotherapy for lung patients: feasibility study on deforming planning CT to CBCT to assess the impact of anatomical changes on dosimetry. Physics in Medicine and Biology, 2018, 63, 155014. | 1.6 | 29 |
| 30 | Statistical Motion Mask and Sliding Registration. Lecture Notes in Computer Science, 2018, , 13-23. | 1.0 | 5 |
| 31 | Super-resolution T2-weighted 4D MRI for image guided radiotherapy. Radiotherapy and Oncology, 2018, 129, 486-493. | 0.3 | 16 |
| 32 | Uncertainty in Multitask Learning: Joint Representations for Probabilistic MR-only Radiotherapy Planning. Lecture Notes in Computer Science, 2018, , 3-11. | 1.0 | 25 |
| 33 | A comprehensive evaluation of the accuracy of CBCT and deformable registration based dose calculation in lung proton therapy. Biomedical Physics and Engineering Express, 2017, 3, 015003. | 0.6 | 22 |
| 34 | Evaluation of a multi-atlas CT synthesis approach for MRI-only radiotherapy treatment planning. Physica Medica, 2017, 35, 7-17. | 0.4 | 52 |
| 35 | A hybrid patient-specific biomechanical model based image registration method for the motion estimation of lungs. Medical Image Analysis, 2017, 39, 87-100. | 7.0 | 32 |
| 36 | Pulmonary Lobe Segmentation With Probabilistic Segmentation of the Fissures and a Groupwise Fissure Prior. IEEE Transactions on Medical Imaging, 2017, 36, 1650-1663. | 5.4 | 28 |

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|---|---------|----|-----------| 
| 37 | A generalized framework unifying image registration and respiratory motion models and incorporating image reconstruction, for partial image data or full images. Physics in Medicine and Biology, 2017, 62, 4273-4292. | 1.6 | 43 |
| 38 | Iterative framework for the joint segmentation and CT synthesis of MR images: application to MRI-only radiotherapy treatment planning. Physics in Medicine and Biology, 2017, 62, 4237-4253. | 1.6 | 32 |
| 39 | Quantification of Radiation Therapy-Induced Diaphragmatic Changes Using Serial CT Imaging. International Journal of Radiation Oncology Biology Physics, 2017, 99, S12. | 0.4 | 2 |
| 40 | Multi-level Multi-task Structured Sparse Learning for Diagnosis of Schizophrenia Disease. Lecture Notes in Computer Science, 2017, 10435, 46-54. | 1.0 | 1 |
| 41 | Tumour auto-contouring on 2d cine MRI for locally advanced lung cancer: A comparative study. Radiotherapy and Oncology, 2017, 125, 485-491. | 0.3 | 30 |
| 42 | OC-0155: Automated lung tumour delineation in cine MR images for image guided radiotherapy with an MR-Linac. Radiotherapy and Oncology, 2017, 123, S78. | 0.3 | 0 |
| 43 | Autoadaptive motion modelling for MR-based respiratory motion estimation. Medical Image Analysis, 2017, 35, 83-100. | 7.0 | 25 |
| 44 | Data Driven Cone Beam CT Motion Management for Radiotherapy Application. , 2017, , . | | 1 |
| 45 | Required transition from research to clinical application: Report on the 4D treatment planning workshops 2014 and 2015. Physica Medica, 2016, 32, 874-882. | 0.4 | 34 |
| 46 | Joint Segmentation and CT Synthesis forÂMRI-only Radiotherapy Treatment Planning. Lecture Notes in Computer Science, 2016, , 547-555. | 1.0 | 3 |
| 47 | Joint PET-MR respiratory motion models for clinical PET motion correction. Physics in Medicine and Biology, 2016, 61, 6515-6530. | 1.6 | 27 |
| 48 | First Clinical Investigation of Cone Beam Computed Tomography and Deformable Registration for Adaptive Proton Therapy for Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2016, 95, 549-559. | 0.4 | 172 |
| 49 | Self-Aligning Manifolds for Matching Disparate Medical Image Datasets. Lecture Notes in Computer Science, 2015, 24, 363-374. | 1.0 | 11 |
| 50 | Validation of clinical acceptability of an atlasâ€based segmentation algorithm for the delineation of organs at risk in head and neck cancer. Medical Physics, 2015, 42, 5027-5034. | 1.6 | 52 |
| 51 | Toward adaptive radiotherapy for head and neck patients: Uncertainties in dose warping due to the choice of deformable registration algorithm. Medical Physics, 2015, 42, 760-769. | 1.6 | 72 |
| 52 | Robust CT Synthesis for Radiotherapy Planning: Application to the Head and Neck Region. Lecture Notes in Computer Science, 2015, , 476-484. | 1.0 | 20 |
| 53 | Cone-Beam Computed Tomography and Deformable Registration-Based â€œDose of the Dayâ€ Calculations for Adaptive Proton Therapy. International Journal of Particle Therapy, 2015, 2, 404-414. | 0.9 | 51 |
| 54 | Toward adaptive radiotherapy for head and neck patients: Feasibility study on using CTâ€toâ€CBCT deformable registration for â€œdose of the dayâ€ calculations. Medical Physics, 2014, 41, 031703. | 1.6 | 183 |

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|---|---------|-----|-----------|
| 55 | Challenges of radiotherapy: Report on the 4D treatment planning workshop 2013. Physica Medica, 2014, 30, 809-815. | 0.4 | 32 |
| 56 | High-resolution dynamic MR imaging of the thorax for respiratory motion correction of PET using groupwise manifold alignment. Medical Image Analysis, 2014, 18, 939-952. | 7.0 | 36 |
| 57 | Combining Image Registration, Respiratory Motion Modelling, and Motion Compensated Image Reconstruction. Lecture Notes in Computer Science, 2014, , 103-113. | 1.0 | 2 |
| 58 | Multi-scale Analysis of Imaging Features and Its Use in the Study of COPD Exacerbation Susceptible Phenotypes. Lecture Notes in Computer Science, 2014, 17, 417-424. | 1.0 | 2 |
| 59 | Building Surrogate-Driven Motion Models from Cone-Beam CT via Surrogate-Correlated Optical Flow. Lecture Notes in Computer Science, 2014, , 61-67. | 1.0 | 2 |
| 60 | Building motion models of lung tumours from cone-beam CT for radiotherapy applications. Physics in Medicine and Biology, 2013, 58, 1809-1822. | 1.6 | 21 |
| 61 | Respiratory motion models: A review. Medical Image Analysis, 2013, 17, 19-42. | 7.0 | 320 |
| 62 | CT Colonography: External Clinical Validation of an Algorithm for Computer-assisted Prone and Supine Registration. Radiology, 2013, 268, 752-760. | 3.6 | 6 |
| 63 | CT colonography: inverse-consistent symmetric registration of prone and supine inner colon surfaces. , 2013, , . | | 0 |
| 64 | Estimating Internal Respiratory Motion from Respiratory Surrogate Signals Using Correspondence Models. Biological and Medical Physics Series, 2013, , 187-213. | 0.3 | 5 |
| 65 | Groupwise Simultaneous Manifold Alignment for High-Resolution Dynamic MR Imaging of Respiratory Motion. Lecture Notes in Computer Science, 2013, 23, 232-243. | 1.0 | 13 |
| 66 | Registration of Prone and Supine CT Colonography Datasets with Differing Endoluminal Distension. Lecture Notes in Computer Science, 2013, , 29-38. | 1.0 | 0 |
| 67 | Establishing spatial correspondence for the analysis of images from highly deforming anatomy. , 2012, 2012, 3732-5. | | 0 |
| 68 | Motion modelling and motion compensated reconstruction of tumours in cone-beam computed tomography. , 2012, , . | | 4 |
| 69 | External Clinical Validation of Prone and Supine CT Colonography Registration. Lecture Notes in Computer Science, 2012, , 10-19. | 1.0 | 2 |
| 70 | Inverse Consistency Error in the Registration of Prone and Supine Images in CT Colonography. Lecture Notes in Computer Science, 2012, , 1-7. | 1.0 | 1 |
| 71 | Registration of the endoluminal surfaces of the colon derived from prone and supine CT colonography. Medical Physics, 2011, 38, 3077-3089. | 1.6 | 25 |
| 72 | Evaluation of Registration Methods on Thoracic CT: The EMPIRE10 Challenge. IEEE Transactions on Medical Imaging, 2011, 30, 1901-1920. | 5.4 | 363 |

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| 73 | Establishing Spatial Correspondence between the Inner Colon Surfaces from Prone and Supine CT Colonography. Lecture Notes in Computer Science, 2010, 13, 497-504. | 1.0 | 6 |
| 74 | Assessment of two novel ventilatory surrogates for use in the delivery of gated/tracked radiotherapy for non-small cell lung cancer. Radiotherapy and Oncology, 2009, 91, 336-341. | 0.3 | 58 |
| 75 | Objective assessment of deformable image registration in radiotherapy: A multi‐institution study. Medical Physics, 2008, 35, 5944-5953. | 1.6 | 132 |
| 76 | Nonrigid Registration. , 2008, , 193-218. |  | 0 |
| 77 | TU‐C‐M100J‐03: Objective Assessment of Deformable Image Registration in Radiotherapy â€" a Multi‐Institution Study. Medical Physics, 2007, 34, 2545-2545. | 1.6 | 1 |
| 78 | A continuous 4D motion model from multiple respiratory cycles for use in lung radiotherapy. Medical Physics, 2006, 33, 3348-3358. | 1.6 | 155 |
| 79 | Tissue deformation and shape models in image-guided interventions: a discussion paper. Medical Image Analysis, 2005, 9, 163-175. | 7.0 | 73 |