

Jamie R McClelland

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

2,616
citations

236925

25
h-index

189892

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. <i>Cancers</i> , 2022, 14, 946.	3.7	3
2	A Novel and Automated Approach to Classify Radiation Induced Lung Tissue Damage on CT Scans. <i>Cancers</i> , 2022, 14, 1341.	3.7	2
3	Clinical practice vs. state-of-the-art research and future visions: Report on the 4D treatment planning workshop for particle therapy – Edition 2018 and 2019. <i>Physica Medica</i> , 2021, 82, 54-63.	0.7	18
4	Clinical use, challenges, and barriers to implementation of deformable image registration in radiotherapy – the need for guidance and QA tools. <i>British Journal of Radiology</i> , 2021, 94, 20210001.	2.2	7
5	Motion estimation and correction for simultaneous PET/MR using SIRF and CIL. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200208.	3.4	8
6	A multichannel feature-based approach for longitudinal lung CT registration in the presence of radiation induced lung damage. <i>Physics in Medicine and Biology</i> , 2021, 66, 175020.	3.0	3
7	Technical Note: Four-dimensional deformable digital phantom for MRI sequence development. <i>Medical Physics</i> , 2021, 48, 5406-5413.	3.0	4
8	The impact of unscheduled gaps and iso-centre sequencing on the biologically effective dose in Gamma Knife radiosurgery. <i>Journal of Radiosurgery and SBRT</i> , 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. <i>Physics in Medicine and Biology</i> , 2020, 65, 165005.	3.0	17
10	Investigation of the evolution of radiation-induced lung damage using serial CT imaging and pulmonary function tests. <i>Radiotherapy and Oncology</i> , 2020, 148, 89-96.	0.6	8
11	Evaluation of MRI-derived surrogate signals to model respiratory motion. <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 045015.	1.2	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. <i>Radiotherapy and Oncology</i> , 2019, 133, S148-S150.	0.6	0
14	OC-0413 MR-derived signals for respiratory motion models evaluated using sagittal and coronal datasets. <i>Radiotherapy and Oncology</i> , 2019, 133, S213-S214.	0.6	1
15	PO-0948 Predicting lung function post-RT in lung cancer using multivariate and principal component analysis. <i>Radiotherapy and Oncology</i> , 2019, 133, S512-S513.	0.6	0
16	EP-2067 Data driven region of interest respiratory surrogate signal extraction from CBCT data. <i>Radiotherapy and Oncology</i> , 2019, 133, S1139-S1140.	0.6	0
17	EP-2038 Use of deformable image registration for automatic outlining of the rectum. <i>Radiotherapy and Oncology</i> , 2019, 133, S1118-S1119.	0.6	0
18	Real-time intrafraction motion monitoring in external beam radiotherapy. <i>Physics in Medicine and Biology</i> , 2019, 64, 15TR01.	3.0	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.	3.0	14
21	Long term radiological features of radiation-induced lung damage. Radiotherapy and Oncology, 2018, 126, 300-306.	0.6	18
22	Objective CT-Based Imaging Biomarkers of Radiation-Induced Lung Damage. International Journal of Radiation Oncology Biology Physics, 2018, 102, S70-S71.	0.8	0
23	Response to Oymak et al. Radiotherapy and Oncology, 2018, 129, 613-614.	0.6	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.	0.7	34
25	MRI-guidance for motion management in external beam radiotherapy: current status and future challenges. Physics in Medicine and Biology, 2018, 63, 22TR03.	3.0	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.	0.8	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.	0.6	1
28	OC-0525: An evaluation of vocal instruction for external respiratory motion using kernel density estimation. Radiotherapy and Oncology, 2018, 127, S277-S278.	0.6	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.	3.0	29
30	Statistical Motion Mask and Sliding Registration. Lecture Notes in Computer Science, 2018, , 13-23.	1.3	5
31	Super-resolution T2-weighted 4D MRI for image guided radiotherapy. Radiotherapy and Oncology, 2018, 129, 486-493.	0.6	16
32	Uncertainty in Multitask Learning: Joint Representations for Probabilistic MR-only Radiotherapy Planning. Lecture Notes in Computer Science, 2018, , 3-11.	1.3	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.	1.2	22
34	Evaluation of a multi-atlas CT synthesis approach for MRI-only radiotherapy treatment planning. Physica Medica, 2017, 35, 7-17.	0.7	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.	11.6	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.	8.9	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.	3.0	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.	3.0	32
39	Quantification of Radiation Therapy-Induced Diaphragmatic Changes Using Serial CT Imaging. International Journal of Radiation Oncology Biology Physics, 2017, 99, S12.	0.8	2
40	Multi-level Multi-task Structured Sparse Learning for Diagnosis of Schizophrenia Disease. Lecture Notes in Computer Science, 2017, 10435, 46-54.	1.3	1
41	Tumour auto-contouring on 2d cine MRI for locally advanced lung cancer: A comparative study. Radiotherapy and Oncology, 2017, 125, 485-491.	0.6	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.	0.6	0
43	Autoadaptive motion modelling for MR-based respiratory motion estimation. Medical Image Analysis, 2017, 35, 83-100.	11.6	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.	0.7	34
46	Joint Segmentation and CT Synthesis for MRI-only Radiotherapy Treatment Planning. Lecture Notes in Computer Science, 2016, , 547-555.	1.3	3
47	Joint PET-MR respiratory motion models for clinical PET motion correction. Physics in Medicine and Biology, 2016, 61, 6515-6530.	3.0	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.	0.8	172
49	Self-Aligning Manifolds for Matching Disparate Medical Image Datasets. Lecture Notes in Computer Science, 2015, 24, 363-374.	1.3	11
50	Validation of clinical acceptability of an atlas-based segmentation algorithm for the delineation of organs at risk in head and neck cancer. Medical Physics, 2015, 42, 5027-5034.	3.0	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.	3.0	72
52	Robust CT Synthesis for Radiotherapy Planning: Application to the Head and Neck Region. Lecture Notes in Computer Science, 2015, , 476-484.	1.3	20
53	Cone-Beam Computed Tomography and Deformable Registration-Based "Dose of the Day" Calculations for Adaptive Proton Therapy. International Journal of Particle Therapy, 2015, 2, 404-414.	1.8	51
54	Toward adaptive radiotherapy for head and neck patients: Feasibility study on using CT-to-CBCT deformable registration for "dose of the day" calculations. Medical Physics, 2014, 41, 031703.	3.0	183

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55	Challenges of radiotherapy: Report on the 4D treatment planning workshop 2013. <i>Physica Medica</i> , 2014, 30, 809-815.	0.7	32
56	High-resolution dynamic MR imaging of the thorax for respiratory motion correction of PET using groupwise manifold alignment. <i>Medical Image Analysis</i> , 2014, 18, 939-952.	11.6	36
57	Combining Image Registration, Respiratory Motion Modelling, and Motion Compensated Image Reconstruction. <i>Lecture Notes in Computer Science</i> , 2014, , 103-113.	1.3	2
58	Multi-scale Analysis of Imaging Features and Its Use in the Study of COPD Exacerbation Susceptible Phenotypes. <i>Lecture Notes in Computer Science</i> , 2014, 17, 417-424.	1.3	2
59	Building Surrogate-Driven Motion Models from Cone-Beam CT via Surrogate-Correlated Optical Flow. <i>Lecture Notes in Computer Science</i> , 2014, , 61-67.	1.3	2
60	Building motion models of lung tumours from cone-beam CT for radiotherapy applications. <i>Physics in Medicine and Biology</i> , 2013, 58, 1809-1822.	3.0	21
61	Respiratory motion models: A review. <i>Medical Image Analysis</i> , 2013, 17, 19-42.	11.6	320
62	CT Colonography: External Clinical Validation of an Algorithm for Computer-assisted Prone and Supine Registration. <i>Radiology</i> , 2013, 268, 752-760.	7.3	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. <i>Biological and Medical Physics Series</i> , 2013, , 187-213.	0.4	5
65	Groupwise Simultaneous Manifold Alignment for High-Resolution Dynamic MR Imaging of Respiratory Motion. <i>Lecture Notes in Computer Science</i> , 2013, 23, 232-243.	1.3	13
66	Registration of Prone and Supine CT Colonography Datasets with Differing Endoluminal Distension. <i>Lecture Notes in Computer Science</i> , 2013, , 29-38.	1.3	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. <i>Lecture Notes in Computer Science</i> , 2012, , 10-19.	1.3	2
70	Inverse Consistency Error in the Registration of Prone and Supine Images in CT Colonography. <i>Lecture Notes in Computer Science</i> , 2012, , 1-7.	1.3	1
71	Registration of the endoluminal surfaces of the colon derived from prone and supine CT colonography. <i>Medical Physics</i> , 2011, 38, 3077-3089.	3.0	25
72	Evaluation of Registration Methods on Thoracic CT: The EMPIRE10 Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2011, 30, 1901-1920.	8.9	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.	1.3	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.	0.6	58
75	Objective assessment of deformable image registration in radiotherapy: A multi-institution study. Medical Physics, 2008, 35, 5944-5953.	3.0	132
76	Nonrigid Registration. , 2008, , 193-218.		0
77	Objective Assessment of Deformable Image Registration in Radiotherapy – a Multi-institution Study. Medical Physics, 2007, 34, 2545-2545.	3.0	1
78	A continuous 4D motion model from multiple respiratory cycles for use in lung radiotherapy. Medical Physics, 2006, 33, 3348-3358.	3.0	155
79	Tissue deformation and shape models in image-guided interventions: a discussion paper. Medical Image Analysis, 2005, 9, 163-175.	11.6	73