Jamie R Mcclelland

List of Publications by Year
in descending order

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	Evaluation of Registration Methods on Thoracic CT: The EMPIRE10 Challenge. IEEE Transactions on Medical Imaging, 2011, 30, 1901-1920.	8.9	363
2	Respiratory motion models: A review. Medical Image Analysis, 2013, 17, 19-42.	11.6	320
3	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.	3.0	183
4	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
5	A continuous 4D motion model from multiple respiratory cycles for use in lung radiotherapy. Medical Physics, 2006, 33, 3348-3358.	3.0	155
6	Objective assessment of deformable image registration in radiotherapy: A multiâ€institution study. Medical Physics, 2008, 35, 5944-5953.	3.0	132
7	Real-time intrafraction motion monitoring in external beam radiotherapy. Physics in Medicine and Biology, 2019, 64, 15TR01.	3.0	130
8	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
9	Tissue deformation and shape models in image-guided interventions: a discussion paper. Medical Image Analysis, 2005, 9, 163-175.	11.6	73
10	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
11	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
12	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.	3.0	52
13	Evaluation of a multi-atlas CT synthesis approach for MRI-only radiotherapy treatment planning. Physica Medica, 2017, 35, 7-17.	0.7	52
14	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.	1.8	51
15	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
16	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.	11.6	36
17	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
18	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

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19	Challenges of radiotherapy: Report on the 4D treatment planning workshop 2013. Physica Medica, 2014, 30, 809-815.	0.7	32
20	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
21	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
22	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
23	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
24	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
25	Joint PET-MR respiratory motion models for clinical PET motion correction. Physics in Medicine and Biology, 2016, 61, 6515-6530.	3.0	27
26	Registration of the endoluminal surfaces of the colon derived from prone and supine CT colonography. Medical Physics, 2011, 38, 3077-3089.	3.0	25
27	Autoadaptive motion modelling for MR-based respiratory motion estimation. Medical Image Analysis, 2017, 35, 83-100.	11.6	25
28	Uncertainty in Multitask Learning: Joint Representations for Probabilistic MR-only Radiotherapy Planning. Lecture Notes in Computer Science, 2018, , 3-11.	1.3	25
29	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
30	Building motion models of lung tumours from cone-beam CT for radiotherapy applications. Physics in Medicine and Biology, 2013, 58, 1809-1822.	3.0	21
31	Robust CT Synthesis for Radiotherapy Planning: Application to the Head and Neck Region. Lecture Notes in Computer Science, 2015, , 476-484.	1.3	20
32	Long term radiological features of radiation-induced lung damage. Radiotherapy and Oncology, 2018, 126, 300-306.	0.6	18
33	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.	0.7	18
34	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.	3.0	17
35	Super-resolution T2-weighted 4D MRI for image guided radiotherapy. Radiotherapy and Oncology, 2018, 129, 486-493.	0.6	16
36	Issues in quantification of registered respiratory gated PET/CT in the lung. Physics in Medicine and Biology, 2018, 63, 015007.	3.0	14

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37	Groupwise Simultaneous Manifold Alignment for High-Resolution Dynamic MR Imaging of Respiratory Motion. Lecture Notes in Computer Science, 2013, 23, 232-243.	1.3	13
38	Evaluation of MRI-derived surrogate signals to model respiratory motion. Biomedical Physics and Engineering Express, 2020, 6, 045015.	1.2	12
39	Self-Aligning Manifolds for Matching Disparate Medical Image Datasets. Lecture Notes in Computer Science, 2015, 24, 363-374.	1.3	11
40	Investigation of the evolution of radiation-induced lung damage using serial CT imaging and pulmonary function tests. Radiotherapy and Oncology, 2020, 148, 89-96.	0.6	8
41	Motion estimation and correction for simultaneous PET/MR using SIRF and CIL. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200208.	3.4	8
42	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
43	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.	2.2	7
44	CT Colonography: External Clinical Validation of an Algorithm for Computer-assisted Prone and Supine Registration. Radiology, 2013, 268, 752-760.	7.3	6
45	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
46	Statistical Motion Mask and Sliding Registration. Lecture Notes in Computer Science, 2018, , 13-23.	1.3	5
47	Estimating Internal Respiratory Motion from Respiratory Surrogate Signals Using Correspondence Models. Biological and Medical Physics Series, 2013, , 187-213.	0.4	5
48	Motion modelling and motion compensated reconstruction of tumours in cone-beam computed tomography. , 2012, , .		4
49	Technical Note: Fourâ€dimensional deformable digital phantom for MRI sequence development. Medical Physics, 2021, 48, 5406-5413.	3.0	4
50	Joint Segmentation and CT Synthesis forÂMRI-only Radiotherapy Treatment Planning. Lecture Notes in Computer Science, 2016, , 547-555.	1.3	3
51	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.	3.0	3
52	PET/CT Respiratory Motion Correction With a Single Attenuation Map Using NAC Derived Deformation Fields. , 2020, , .		3
53	Quantitative Analysis of Radiation-Associated Parenchymal Lung Change. Cancers, 2022, 14, 946.	3.7	3
54	External Clinical Validation of Prone and Supine CT Colonography Registration. Lecture Notes in Computer Science, 2012, , 10-19.	1.3	2

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55	Quantification of Radiation Therapy-Induced Diaphragmatic Changes Using Serial CT Imaging. International Journal of Radiation Oncology Biology Physics, 2017, 99, S12.	0.8	2
56	Impact of Time-of-Flight on Respiratory Motion Modelling using Non-Attenuation-Corrected PET. , 2019, , .		2
57	Combining Image Registration, Respiratory Motion Modelling, and Motion Compensated Image Reconstruction. Lecture Notes in Computer Science, 2014, , 103-113.	1.3	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.	1.3	2
59	Building Surrogate-Driven Motion Models from Cone-Beam CT via Surrogate-Correlated Optical Flow. Lecture Notes in Computer Science, 2014, , 61-67.	1.3	2
60	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
61	A Novel and Automated Approach to Classify Radiation Induced Lung Tissue Damage on CT Scans. Cancers, 2022, 14, 1341.	3.7	2
62	Multi-level Multi-task Structured Sparse Learning for Diagnosis of Schizophrenia Disease. Lecture Notes in Computer Science, 2017, 10435, 46-54.	1.3	1
63	Data Driven Cone Beam CT Motion Management for Radiotherapy Application. , 2017, , .		1
64	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
65	OC-0413 MR-derived signals for respiratory motion models evaluated using sagittal and coronal datasets. Radiotherapy and Oncology, 2019, 133, S213-S214.	0.6	1
66	TUâ€Câ€M100Jâ€03: Objective Assessment of Deformable Image Registration in Radiotherapy â€" a Multiâ€Institution Study. Medical Physics, 2007, 34, 2545-2545.	3.0	1
67	Inverse Consistency Error in the Registration of Prone and Supine Images in CT Colonography. Lecture Notes in Computer Science, 2012, , 1-7.	1.3	1
68	Establishing spatial correspondence for the analysis of images from highly deforming anatomy. , 2012, 2012, 3732-5.		0
69	CT colonography: inverse-consistent symmetric registration of prone and supine inner colon surfaces. , 2013, , .		0
70	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
71	Objective CT-Based Imaging Biomarkers of Radiation-Induced Lung Damage. International Journal of Radiation Oncology Biology Physics, 2018, 102, S70-S71.	0.8	0
72	Response to Oymak et al. Radiotherapy and Oncology, 2018, 129, 613-614.	0.6	0

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73	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
74	OC-0296 Validation of motion-including dose reconstruction on a ground-truth time-resolved moving anatomy. Radiotherapy and Oncology, 2019, 133, S148-S150.	0.6	0
75	PO-0948 Predicting lung function post-RT in lung cancer using multivariate and principal component analysis. Radiotherapy and Oncology, 2019, 133, S512-S513.	0.6	0
76	EP-2067 Data driven region of interest respiratory surrogate signal extraction from CBCT data. Radiotherapy and Oncology, 2019, 133, S1139-S1140.	0.6	0
77	EP-2038 Use of deformable image registration for automatic outlining of the rectum. Radiotherapy and Oncology, 2019, 133, S1118-S1119.	0.6	0
78	Nonrigid Registration. , 2008, , 193-218.		0
79	Registration of Prone and Supine CT Colonography Datasets with Differing Endoluminal Distension. Lecture Notes in Computer Science, 2013, , 29-38.	1.3	0