

Development and preliminary evaluation of a prototype incorporating a patient-specific guiding waveform

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Retrospective Analysis of Artifacts in Four-Dimensional CT Images of 50 Abdominal and Thoracic Radiotherapy Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 72, 1250-1258.	0.4	215
2	Prospective displacement and velocity-based cine 4D CT. <i>Medical Physics</i> , 2008, 35, 4501-4512.	1.6	42
3	Design and evaluation of a methodology to perform personalized visual biofeedback for reducing respiratory amplitude in radiation treatment. <i>Medical Physics</i> , 2009, 36, 1467-1472.	1.6	16
4	Real-time profiling of respiratory motion: baseline drift, frequency variation and fundamental pattern change. <i>Physics in Medicine and Biology</i> , 2009, 54, 4777-4792.	1.6	57
5	Accuracy in the localization of thoracic and abdominal tumors using respiratory displacement, velocity, and phase. <i>Medical Physics</i> , 2009, 36, 386-393.	1.6	33
6	Commissioning and quality assurance for a respiratory training system based on audiovisual biofeedback. <i>Journal of Applied Clinical Medical Physics</i> , 2010, 11, 42-56.	0.8	16
7	Quantification of Artifact Reduction With Real-Time Cine Four-Dimensional Computed Tomography Acquisition Methods. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 76, 1242-1250.	0.4	26
8	Inter-observer and intra-observer reliability for lung cancer target volume delineation in the 4D-CT era. <i>Radiotherapy and Oncology</i> , 2010, 95, 166-171.	0.3	98
9	Motion Management and Image Guidance for Thoracic Tumor Radiotherapy: Clinical Treatment Programs. <i>Frontiers of Radiation Therapy and Oncology</i> , 2011, 43, 271-291.	1.4	14
10	Characterization and identification of spatial artifacts during 4D-CT imaging. <i>Medical Physics</i> , 2011, 38, 2074-2087.	1.6	28
11	Quasi-breath-hold technique using personalized audio-visual biofeedback for respiratory motion management in radiotherapy. <i>Medical Physics</i> , 2011, 38, 3114-3124.	1.6	19
12	Report of AAPM TG 135: Quality assurance for robotic radiosurgery. <i>Medical Physics</i> , 2011, 38, 2914-2936.	1.6	196
13	Four-Dimensional Lung Treatment Planning in Layer-Stacking Carbon Ion Beam Treatment: Comparison of Layer-Stacking and Conventional Ungated/Gated Irradiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 80, 597-607.	0.4	13
14	Investigation of a novel algorithm for true 4D-VMAT planning with comparison to tracked, gated and static delivery. <i>Medical Physics</i> , 2011, 38, 2698-2707.	1.6	28
15	Fluoroscopy as a surrogate for lung tumour motion. <i>British Journal of Radiology</i> , 2012, 85, 168-175.	1.0	8
16	Audiovisual biofeedback improves diaphragm motion reproducibility in MRI. <i>Medical Physics</i> , 2012, 39, 6921-6928.	1.6	42
17	The impact of audio-visual biofeedback on 4D PET images: Results of a phantom study. <i>Medical Physics</i> , 2012, 39, 1046-1057.	1.6	18
18	Interfractional Positional Variability of Fiducial Markers and Primary Tumors in Locally Advanced Non-Small-Cell Lung Cancer During Audiovisual Biofeedback Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 83, 1566-1572.	0.4	58

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19	Reproducibility of Four-dimensional Computed Tomography-based Lung Ventilation Imaging. <i>Academic Radiology</i> , 2012, 19, 1554-1565.	1.3	53
20	An automated method for comparing motion artifacts in cine four-dimensional computed tomography images. <i>Journal of Applied Clinical Medical Physics</i> , 2012, 13, 170-180.	0.8	17
21	A visual patient feedback device using optical surface measurement for the cooperative management of setup and body dynamics during radiotherapy. <i>Biomedical Signal Processing and Control</i> , 2013, 8, 596-602.	3.5	2
22	Clinical Implementation of Intrafraction Cone Beam Computed Tomography Imaging During Lung Tumor Stereotactic Ablative Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 87, 917-923.	0.4	32
23	Dose Escalation for Locally Advanced Lung Cancer Using Adaptive Radiation Therapy With Simultaneous Integrated Volume-Adapted Boost. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 86, 414-419.	0.4	30
24	Improvement in the accuracy of respiratory-gated radiation therapy using a respiratory guiding system. <i>Journal of the Korean Physical Society</i> , 2013, 62, 159-164.	0.3	3
25	4D VMAT, gated VMAT, and 3D VMAT for stereotactic body radiation therapy in lung. <i>Physics in Medicine and Biology</i> , 2013, 58, 749-770.	1.6	39
26	Optimizing 4D cone beam computed tomography acquisition by varying the gantry velocity and projection time interval. <i>Physics in Medicine and Biology</i> , 2013, 58, 1705-1723.	1.6	30
27	4D CT lung ventilation images are affected by the 4D CT sorting method. <i>Medical Physics</i> , 2013, 40, 101907.	1.6	52
28	Audiovisual biofeedback improves motion prediction accuracy. <i>Medical Physics</i> , 2013, 40, 041705.	1.6	20
29	Estimating the 4D respiratory lung motion by spatiotemporal registration and super-resolution image reconstruction. <i>Medical Physics</i> , 2013, 40, 031710.	1.6	21
30	Development of real-time motion verification system using in-room optical images for respiratory-gated radiotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2013, 14, 25-42.	0.8	9
31	Quasi-breath-hold (QBH) Biofeedback in Gated 3D Thoracic MRI: Feasibility Study. <i>Progress in Medical Physics</i> , 2014, 25, 72.	0.4	1
32	The potential of positron emission tomography for intratreatment dynamic lung tumor tracking: A phantom study. <i>Medical Physics</i> , 2014, 41, 021718.	1.6	18
33	Motion management within two respiratory-gating windows: feasibility study of dual quasi-breath-hold technique in gated medical procedures. <i>Physics in Medicine and Biology</i> , 2014, 59, 6583-6594.	1.6	10
34	The internal-external respiratory motion correlation is unaffected by audiovisual biofeedback. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2014, 37, 97-102.	1.4	7
35	Irregular breathing during 4DCT scanning of lung cancer patients: Is the midventilation approach robust?. <i>Physica Medica</i> , 2014, 30, 69-75.	0.4	22
36	Interfraction Displacement of Primary Tumor and Involved Lymph Nodes Relative to Anatomic Landmarks in Image Guided Radiation Therapy of Locally Advanced Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 88, 210-215.	0.4	12

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37	Audiovisual biofeedback improves image quality and reduces scan time for respiratory-gated 3D MRI. <i>Journal of Physics: Conference Series</i> , 2014, 489, 012033.	0.3	7
38	Reference respiratory waveforms by minimum jerk model analysis. <i>Medical Physics</i> , 2015, 42, 5066-5074.	1.6	5
39	Development of a novel remote-controlled and self-contained audiovisual aided interactive system for immobilizing claustrophobic patients. <i>Journal of Applied Clinical Medical Physics</i> , 2015, 16, 216-224.	0.8	4
40	Respiratory motion variability of primary tumors and lymph nodes during radiotherapy of locally advanced non-small-cell lung cancers. <i>Radiation Oncology</i> , 2015, 10, 133.	1.2	8
41	Audiovisual biofeedback breathing guidance for lung cancer patients receiving radiotherapy: a multi-institutional phase II randomised clinical trial. <i>BMC Cancer</i> , 2015, 15, 526.	1.1	11
43	Breathing guidance in radiation oncology and radiology: A systematic review of patient and healthy volunteer studies. <i>Medical Physics</i> , 2015, 42, 5490-5509.	1.6	28
44	Four dimensional magnetic resonance imaging optimization and implementation for magnetic resonance imaging simulation. <i>Practical Radiation Oncology</i> , 2015, 5, 433-442.	1.1	23
45	The impact of breathing guidance and prospective gating during thoracic 4DCT imaging: an XCAT study utilizing lung cancer patient motion. <i>Physics in Medicine and Biology</i> , 2016, 61, 6485-6501.	1.6	17
46	Impact of incorporating visual biofeedback in 4D MRI. <i>Journal of Applied Clinical Medical Physics</i> , 2016, 17, 128-137.	0.8	9
47	A concept for classification of optimal breathing pattern for use in radiotherapy tracking, based on respiratory tumor kinematics and minimum jerk analysis. <i>Medical Physics</i> , 2016, 43, 3168-3177.	1.6	2
48	Comparison of visual biofeedback system with a guiding waveform and abdomen-chest motion self-control system for respiratory motion management. <i>Journal of Radiation Research</i> , 2016, 57, 387-392.	0.8	4
49	The impact of audiovisual biofeedback on 4D functional and anatomic imaging: Results of a lung cancer pilot study. <i>Radiotherapy and Oncology</i> , 2016, 120, 267-272.	0.3	10
50	Audiovisual Biofeedback Improves Cine-Magnetic Resonance Imaging Measured Lung Tumor Motion Consistency. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 94, 628-636.	0.4	26
51	Audiovisual biofeedback guided breath-hold improves lung tumor position reproducibility and volume consistency. <i>Advances in Radiation Oncology</i> , 2017, 2, 354-362.	0.6	14
52	A longitudinal four-dimensional computed tomography and cone beam computed tomography dataset for image-guided radiation therapy research in lung cancer. <i>Medical Physics</i> , 2017, 44, 762-771.	1.6	65
53	The first step towards a respiratory motion prediction for natural-breathing by using a motion generator. <i>Journal of the Korean Physical Society</i> , 2017, 70, 621-628.	0.3	0
54	Audiovisual biofeedback improves the correlation between internal/external surrogate motion and lung tumor motion. <i>Medical Physics</i> , 2018, 45, 1009-1017.	1.6	21
55	Impact of audiovisual biofeedback on interfraction respiratory motion reproducibility in liver cancer stereotactic body radiotherapy. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2018, 62, 133-139.	0.9	0

#	ARTICLE	IF	CITATIONS
56	Results from a clinical trial evaluating the efficacy of real-time body surface visual feedback in reducing patient motion during lung cancer radiotherapy. <i>Acta Oncologica</i> , 2018, 57, 211-218.	0.8	4
57	A respiratory-guided 4D digital tomosynthesis. <i>Physics in Medicine and Biology</i> , 2018, 63, 245007.	1.6	3
58	An <i>in silico</i> performance characterization of respiratory motion guided 4DCT for high-quality low-dose lung cancer imaging. <i>Physics in Medicine and Biology</i> , 2018, 63, 155012.	1.6	10
59	Design and Evaluation of a MEMS Magnetic Field Sensor-Based Respiratory Monitoring and Training System for Radiotherapy. <i>Sensors</i> , 2018, 18, 2742.	2.1	15
60	Time-resolved volumetric MRI in MRI-guided radiotherapy: an <i>in silico</i> comparative analysis. <i>Physics in Medicine and Biology</i> , 2019, 64, 185013.	1.6	23
61	Investigating the impact of tumour motion on TomoTherapy stereotactic ablative body radiotherapy (SABR) deliveries on 3-dimensional and 4-dimensional computed tomography. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2019, 42, 169-179.	1.4	2
62	A clustering approach to 4D MRI retrospective sorting for the investigation of different surrogates. <i>Physica Medica</i> , 2019, 58, 107-113.	0.4	13
63	Direct tumor visual feedback during free breathing in 0.35T MRgRT. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 241-247.	0.8	14
64	Development and Performance Evaluation of Wearable Respiratory Self-Training System Using Patch Type Magnetic Sensor. <i>Frontiers in Oncology</i> , 2021, 11, 680147.	1.3	1
65	Effectiveness of individual audio-visual coaching, respiratory modulated stereotactic body radiotherapy for localized hepatocellular carcinoma: Analysis of 29 cases from a single academic radiotherapy center. <i>Tzu Chi Medical Journal</i> , 2021, 33, 380.	0.4	1
66	Breath: The Effect of Multimedia Biofeedback on Learning Abdominal Breath. <i>Lecture Notes in Computer Science</i> , 2011, , 548-558.	1.0	3
67	Introduction to 4D Motion Modeling and 4D Radiotherapy. <i>Biological and Medical Physics Series</i> , 2013, , 1-21.	0.3	2
68	Geometric uncertainty analysis of MLC tracking for lung SABR. <i>Physics in Medicine and Biology</i> , 2020, 65, 235040.	1.6	6
69	Long-Term Safety and Stability of Gold Coil Fiducial Markers in Non-Small-Cell Lung Cancer Image-Guided Radiotherapy. <i>International Journal of Radiology & Radiation Therapy</i> , 2017, 3, .	0.2	2
70	A method of respiratory phase optimization for better dose sparing of organs at risks: A validation study in patients with lung cancer. <i>Oncotarget</i> , 2018, 9, 205-216.	0.8	3
71	Visually guided respiratory motion management for Ethos adaptive radiotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2022, 23, .	0.8	9
72	A MORPHING TECHNIQUE TO ESTIMATE LUNG CANCER DEFORMATION DUE TO BREATHING IN RADIOTHERAPIC TREATMENT. , 2010, , .		0
73	Development of respiratory training system using individual characteristic guiding waveform. <i>IFMBE Proceedings</i> , 2013, , 2123-2125.	0.2	1

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74	Audio-Visual Biofeedback for Respiratory Motion Management: Comparison of the Reproducibility of Breath-Holding between Visual and Audio Guidance. Journal of Modern Physics, 2018, 09, 2286-2294.	0.3	1
75	CT in Room Gating During Radiotherapy. Medical Radiology, 2020, , 91-106.	0.0	0