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On the accuracy of a moving average algorithm for target tracking during radiation therapy treatment delivery

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Medical Physics, 2008, 35, 2356-65.

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#	Paper	IF	Citations
28	Locating and targeting moving tumors with radiation beams. <i>Medical Physics</i> , <b>2008</b> , 35, 5684-94	4.4	32
27	Tumor tracking and motion compensation with an adaptive tumor tracking system (ATTS): system description and prototype testing. <i>Medical Physics</i> , <b>2008</b> , 35, 3911-21	4.4	74
26	Usefulness of guided breathing for dose rate-regulated tracking. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2009</b> , 73, 594-600	4	5
25	Inferring positions of tumor and nodes in Stage III lung cancer from multiple anatomical surrogates using four-dimensional computed tomography. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2010</b> , 77, 1553-60	4	8
24	Experimental investigation of a moving averaging algorithm for motion perpendicular to the leaf travel direction in dynamic MLC target tracking. <i>Medical Physics</i> , <b>2011</b> , 38, 3924-31	4.4	11
23	Correlation and prediction uncertainties in the cyberknife synchrony respiratory tracking system. <i>Medical Physics</i> , <b>2011</b> , 38, 4036-44	4.4	81
22	Real time 4D IMRT treatment planning based on a dynamic virtual patient model: proof of concept. <i>Medical Physics</i> , <b>2011</b> , 38, 2639-50	4.4	12
21	Electromagnetic-guided dynamic multileaf collimator tracking enables motion management for intensity-modulated arc therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2011</b> , 79, 312-20	4	55
20	Evaluation of motion management strategies based on required margins. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 6347-69	3.8	9
19	Mitigating errors in external respiratory surrogate-based models of tumor position. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2012</b> , 82, e709-16	4	13
18	[Image-guided radiation therapy]. <i>Der Radiologe</i> , <b>2012</b> , 52, 213-21	1.5	3
17	The importance of accurate treatment planning, delivery, and dose verification. <i>Reports of Practical Oncology and Radiotherapy</i> , <b>2012</b> , 17, 63-5	1.5	79
16	Toward correcting drift in target position during radiotherapy via computer-controlled couch adjustments on a programmable Linac. <i>Medical Physics</i> , <b>2013</b> , 40, 051719	4.4	13
15	Use of dMLC for implementation of dynamic respiratory-gated radiation therapy. <i>Medical Physics</i> , <b>2013</b> , 40, 101708	4.4	5
14	Motion and volume change of tumor tissue depending on patient position in liver cancer treatment with use of tomotherapy. <i>Annals of Nuclear Energy</i> , <b>2014</b> , 65, 174-180	1.7	4
13	Retrospective evaluation of CTV to PTV margins using CyberKnife in patients with thoracic tumors. <i>Journal of Applied Clinical Medical Physics</i> , <b>2014</b> , 15, 4825	2.3	10
12	Markerless tumor tracking using short kilovoltage imaging arcs for lung image-guided radiotherapy. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 9437-54	3.8	20

11	Breathing guidance in radiation oncology and radiology: A systematic review of patient and healthy volunteer studies. <i>Medical Physics</i> , <b>2015</b> , 42, 5490-509	4.4	24
10	Performance evaluation of a high-speed multileaf collimator in real-time IMRT delivery to moving targets. <i>Medical Physics</i> , <b>2016</b> , 43, 1401-10	4.4	1
9	Predictive modeling of respiratory tumor motion for real-time prediction of baseline shifts. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 1791-1809	3.8	7
8	Target margin design for real-time lung tumor tracking stereotactic body radiation therapy using CyberKnife Xsight Lung Tracking System. <i>Scientific Reports</i> , <b>2017</b> , 7, 10826	4.9	23
7	Tumor Trailing for Liver SBRT on the MR-Linac. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2019</b> , 103, 468-478	4	33
6	AAPM Task Group 264: The safe clinical implementation of MLC tracking in radiotherapy. <i>Medical Physics</i> , <b>2021</b> , 48, e44-e64	4.4	6
5	Artificial Neural Networks to Emulate and Compensate Breathing Motion During Radiation Therapy. <b>2015</b> , 203-223		2
4	Radiosurgery as a Multidisciplinary Practice. <b>2012</b> , 9-14		
3	Advances in verification and delivery techniques. <i>Imaging in Medical Diagnosis and Therapy</i> , <b>2017</b> , 321-336		
2	Development and performance evaluation of a high-speed multileaf collimator. <i>Journal of Applied Clinical Medical Physics</i> , <b>2017</b> , 18, 96-106	2.3	2
1	Intelligent Respiratory Motion Management for Radiation Treatment. <b>2022</b> , 335-358		