Tracking moving organs in real time

Seminars in Radiation Oncology 14, 91-100

DOI: 10.1053/j.semradonc.2003.10.005

Citation Report

#	Article	IF	CITATIONS
1	A finite state model for respiratory motion analysis in image guided radiation therapy. Physics in Medicine and Biology, 2004, 49, 5357-5372.	1.6	77
2	Tracking errors in a prototype real-time tumour tracking system. Physics in Medicine and Biology, 2004, 49, 5347-5356.	1.6	36
3	On the use of EPID-based implanted marker tracking for 4D radiotherapy. Medical Physics, 2004, 31, 3492-3499.	1.6	95
4	Intrathoracic tumour motion estimation from CT imaging using the 3D optical flow method. Physics in Medicine and Biology, 2004, 49, 4147-4161.	1.6	123
5	Organ and tumor motion: an overview. Seminars in Radiation Oncology, 2004, 14, 2-9.	1.0	73
6	IMAGING AND CONTROL FOR ADAPTIVE RADIOTHERAPY. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 25-30.	0.4	8
7	Nonrigid registration method to assess reproducibility of breath-holding with ABC in lung cancer. International Journal of Radiation Oncology Biology Physics, 2005, 61, 594-607.	0.4	57
8	Robotic whole body stereotactic radiosurgery: clinical advantages of the Cyberknife \hat{A}^{\otimes} integrated system. International Journal of Medical Robotics and Computer Assisted Surgery, 2005, 1, 28-39.	1.2	53
9	Synchronized delivery of DMLC intensity modulated radiation therapy for stationary and moving targets. Medical Physics, 2005, 32, 1802-1817.	1.6	36
10	Feasibility of four-dimensional conformal planning for robotic radiosurgery. Medical Physics, 2005, 32, 3786-3792.	1.6	25
11	Four-dimensional radiotherapy planning for DMLC-based respiratory motion tracking. Medical Physics, 2005, 32, 942-951.	1.6	274
12	On using an adaptive neural network to predict lung tumor motion during respiration for radiotherapy applications. Medical Physics, 2005, 32, 3801-3809.	1.6	117
13	Preliminary study on the use of nonrigid registration for thoraco-abdominal radiosurgery. Medical Physics, 2005, 32, 3777-3785.	1.6	9
14	Determination of maximum leaf velocity and acceleration of a dynamic multileaf collimator: Implications for 4D radiotherapy. Medical Physics, 2005, 32, 932-941.	1.6	62
15	Real-time DMLC IMRT delivery for mobile and deforming targets. Medical Physics, 2005, 32, 3037-3048.	1.6	69
16	Markerless real-time 3-D target region tracking by motion backprojection from projection images. IEEE Transactions on Medical Imaging, 2005, 24, 1455-1468.	5.4	16
17	Technical and dosimetric aspects of respiratory gating using a pressure-sensor motion monitoring system. Medical Physics, 2005, 33, 145-154.	1.6	153
18	From IMRT to IGRT: Frontierland or Neverland?. Radiotherapy and Oncology, 2006, 78, 119-122.	0.3	100

#	Article	IF	Citations
19	Does elastic tissue intrafraction motion with density changes forbid motion-compensated radiotherapy?. Physics in Medicine and Biology, 2006, 51, 1449-1462.	1.6	23
20	Physics, 2006, 33, 3874-3900.	1.6	1,829
21	Visualization of tumor-influenced 3D lung dynamics. , 2006, , .		2
22	Reduction ofÂorgan motion effects inÂlMRT andÂconformal 3D radiation delivery byÂusing gating andÂtracking techniques. Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique, 2006, 10, 269-282.	0.6	93
23	Fluoroscopy based accuracy assessment of electromagnetic tracking., 2006,,.		5
24	CyberKnife Radiosurgery for Benign Intradural Extramedullary Spinal Tumors. Neurosurgery, 2006, 58, 674-685.	0.6	165
25	Speed and amplitude of lung tumor motion precisely detected in four-dimensional setup and in real-time tumor-tracking radiotherapy. International Journal of Radiation Oncology Biology Physics, 2006, 64, 1229-1236.	0.4	183
26	Comparison of daily megavoltage electronic portal imaging or kilovoltage imaging with marker seeds to ultrasound imaging or skin marks for prostate localization and treatment positioning in patients with prostate cancer. International Journal of Radiation Oncology Biology Physics, 2006, 65, 1585-1592.	0.4	79
27	Geometric accuracy of a real-time target tracking system with dynamic multileaf collimator tracking system. International Journal of Radiation Oncology Biology Physics, 2006, 65, 1579-1584.	0.4	163
28	Development of a four-dimensional image-guided radiotherapy system with a gimbaled X-ray head. International Journal of Radiation Oncology Biology Physics, 2006, 66, 271-278.	0.4	220
29	Benefit of three-dimensional image-guided stereotactic localization in the hypofractionated treatment of lung cancer. International Journal of Radiation Oncology Biology Physics, 2006, 66, 738-747.	0.4	34
30	Overview of image-guided radiation therapy. Medical Dosimetry, 2006, 31, 91-112.	0.4	380
31	Technical aspects of image-guided respiration-gated radiation therapy. Medical Dosimetry, 2006, 31, 141-151.	0.4	118
32	Localizing moving targets and organs using motion-managed CTs. Medical Dosimetry, 2006, 31, 134-140.	0.4	13
33	Radiotherapy of Mobile Tumors. Seminars in Radiation Oncology, 2006, 16, 239-248.	1.0	143
34	Improved motion compensation in 3D-CT using respiratory-correlated segment reconstruction: diagnostic and radiotherapy applications. British Journal of Radiology, 2006, 79, 745-755.	1.0	8
35	Localization: conventional and CT simulation. British Journal of Radiology, 2006, 79, S36-S49.	1.0	22
36	Comparative performance of linear and nonlinear neural networks to predict irregular breathing. Physics in Medicine and Biology, 2006, 51, 5903-5914.	1.6	110

#	ARTICLE	IF	Citations
37	Real-time respiration monitoring using the radiotherapy treatment beam and four-dimensional computed tomography (4DCT)—a conceptual study. Physics in Medicine and Biology, 2006, 51, 4469-4495.	1.6	22
38	Dose-guided radiation therapy with megavoltage cone-beam CT. British Journal of Radiology, 2006, 79, S87-S98.	1.0	71
39	A strategy to minimize errors from differential intrafraction organ motion using a single configuration for a †breathing†multileaf collimator. Physics in Medicine and Biology, 2006, 51, 4517-4531.	1.6	28
40	A novel four-dimensional radiotherapy method for lung cancer: imaging, treatment planning and delivery. Physics in Medicine and Biology, 2006, 51, 3251-3267.	1.6	41
41	Three-dimensional spatial modelling of the correlation between abdominal motion and lung tumour motion with breathing. Acta OncolA³gica, 2006, 45, 923-934.	0.8	8
42	Image-Guided Radiosurgical Ablation of Intra- and Extra-Cranial Lesions. Technology in Cancer Research and Treatment, 2006, 5, 421-428.	0.8	49
43	"4D―IMRT Delivery. , 2006, , 269-285.		5
44	An analysis of the treatment couch and control system dynamics for respiration-induced motion compensation. Medical Physics, 2006, 33, 4701-4709.	1.6	61
45	Stereotactic Radiosurgery and Radiotherapy. , 2006, , 233-253.		6
46	Simulation of four-dimensional CT images from deformable registration between inhale and exhale breath-hold CT scans. Medical Physics, 2006, 33, 605-617.	1.6	115
47	33, 1275-1280.	1.6	43
48	Real-Time Simulation and Visualization of Subject-Specific 3D Lung Dynamics. , 2006, , .		2
49	Lung Cancer: Intensity-Modulated Radiation Therapy, Four-Dimensional Imaging and Mobility Management., 2007, 40, 239-252.		8
50	Wireless inertial sensor for tumour motion tracking. Journal of Physics: Conference Series, 2007, 76, 012036.	0.3	6
51	Robotics and its applications in stereotactic radiosurgery. Neurosurgical Focus, 2007, 23, E5.	1.0	15
52	Inferential modeling and predictive feedback control in real-time motion compensation using the treatment couch during radiotherapy. Physics in Medicine and Biology, 2007, 52, 5831-5854.	1.6	29
53	A device guidance method for organ motion compensation in MRI-guided therapy. Physics in Medicine and Biology, 2007, 52, 6427-6438.	1.6	5
54	Four-Dimensional Imaging and Treatment Planning of Moving Targets., 2007, 40, 59-71.		17

#	Article	IF	CITATIONS
55	Derivation of the tumor position from external respiratory surrogates with periodical updating of the internal/external correlation. Physics in Medicine and Biology, 2007, 52, 5443-5456.	1.6	67
56	Projection-data based temporal maximum attenuation computed tomography: determination of internal target volume for lung cancer against intra-fraction motion. Physics in Medicine and Biology, 2007, 52, 1027-1038.	1.6	9
57	Geometric uncertainty of 2D projection imaging in monitoring 3D tumor motion. Physics in Medicine and Biology, 2007, 52, 3439-3454.	1.6	37
58	Statistical analysis and correlation discovery of tumor respiratory motion. Physics in Medicine and Biology, 2007, 52, 4761-4774.	1.6	32
59	IMAGE-GUIDED MOTION ADAPTATION IN RADIOTHERAPY., 2007,,.		4
60	Real-time prediction of respiratory motion based on local regression methods. Physics in Medicine and Biology, 2007, 52, 7137-7152.	1.6	95
61	Accuracy and feasibility of coneâ€beam computed tomography for stereotactic radiosurgery setup. Medical Physics, 2007, 34, 2077-2084.	1.6	57
62	Output-Feedback Tracking for Tumour Motion Compensation in Adaptive Radiotherapy. Proceedings of the American Control Conference, 2007, , .	0.0	7
63	The management of imaging dose during imageâ€guided radiotherapy: Report of the AAPM Task Group 75. Medical Physics, 2007, 34, 4041-4063.	1.6	464
64	Predictive Tracking for Respiratory Induced Motion Compensation in Adaptive Radiotherapy. Measurement and Control, 2007, 40, 16-19.	0.9	10
67	Modeling and prediction of lung tumor motion for robotic assisted radiotherapy. , 2007, , .		7
69	Four-dimensional measurement of lung tumor displacement using 256-multi-slice CT-scanner. Lung Cancer, 2007, 56, 59-67.	0.9	48
70	The Cyberknife: Practical Experience with Treatment Planning and Delivery., 2007, 40, 143-161.		0
71	Observation of Interfractional Variations in Lung Tumor Position Using Respiratory Gated and Ungated Megavoltage Cone-Beam Computed Tomography. International Journal of Radiation Oncology Biology Physics, 2007, 67, 1548-1558.	0.4	53
72	Clinical Feasibility of Using an EPID in cine Mode for Image-Guided Verification of Stereotactic Body Radiotherapy. International Journal of Radiation Oncology Biology Physics, 2007, 69, 258-266.	0.4	67
73	Innovations in image-guided radiotherapy. Nature Reviews Cancer, 2007, 7, 949-960.	12.8	317
74	Different Styles of Image-Guided Radiotherapy. Seminars in Radiation Oncology, 2007, 17, 258-267.	1.0	133
75	Computational Challenges for Image-Guided Radiation Therapy: Framework and Current Research. Seminars in Radiation Oncology, 2007, 17, 245-257.	1.0	58

#	Article	IF	Citations
77	Magnitude of Residual Internal Anatomy Motion on Heavy Charged Particle Dose Distribution in Respiratory Gated Lung Therapy. International Journal of Radiation Oncology Biology Physics, 2008, 71, 587-594.	0.4	8
78	A Deliverable Four-Dimensional Intensity-Modulated Radiation Therapy-Planning Method for Dynamic Multileaf Collimator Tumor Tracking Delivery. International Journal of Radiation Oncology Biology Physics, 2008, 71, 1526-1536.	0.4	28
79	The Effect of Transponder Motion on the Accuracy of the Calypso Electromagnetic Localization System. International Journal of Radiation Oncology Biology Physics, 2008, 72, 295-299.	0.4	26
80	Radiotherapy for Hepatocellular Carcinoma: An Overview. Annals of Surgical Oncology, 2008, 15, 1015-1024.	0.7	77
81	Image-guided radiation therapy: techniques and strategies. Community Oncology, 2008, 5, 86-92.	0.2	2
82	Image Guidance in Radiation Oncology Treatment Planning: The Role of Imaging Technologies on the Planning Process. Seminars in Nuclear Medicine, 2008, 38, 114-118.	2.5	16
83	Prospective displacement and velocity-based cine 4D CT. Medical Physics, 2008, 35, 4501-4512.	1.6	42
84	Functional and Histological Changes in Rat Lung after Boron Neutron Capture Therapy. Radiation Research, 2008, 170, 60-69.	0.7	28
85	Using Neural Networks to Predict Breathing Motion. , 2008, , .		8
86	Optimization of an adaptive neural network to predict breathing. Medical Physics, 2009, 36, 40-47.	1.6	76
86	Optimization of an adaptive neural network to predict breathing. Medical Physics, 2009, 36, 40-47. A monoscopic method for real-time tumour tracking using combined occasional x-ray imaging and continuous respiratory monitoring. Physics in Medicine and Biology, 2008, 53, 2837-2855.	1.6	76
	A monoscopic method for real-time tumour tracking using combined occasional x-ray imaging and		
87	A monoscopic method for real-time tumour tracking using combined occasional x-ray imaging and continuous respiratory monitoring. Physics in Medicine and Biology, 2008, 53, 2837-2855. Tracking of internal organ motion with a six degree-of-freedom MEMS sensor: concept and simulation	1.6	41
87	A monoscopic method for real-time tumour tracking using combined occasional x-ray imaging and continuous respiratory monitoring. Physics in Medicine and Biology, 2008, 53, 2837-2855. Tracking of internal organ motion with a six degree-of-freedom MEMS sensor: concept and simulation study. Measurement Science and Technology, 2008, 19, 024006. Inference of hysteretic respiratory tumor motion from external surrogates: a state augmentation	1.6	41
87 88 89	A monoscopic method for real-time tumour tracking using combined occasional x-ray imaging and continuous respiratory monitoring. Physics in Medicine and Biology, 2008, 53, 2837-2855. Tracking of internal organ motion with a six degree-of-freedom MEMS sensor: concept and simulation study. Measurement Science and Technology, 2008, 19, 024006. Inference of hysteretic respiratory tumor motion from external surrogates: a state augmentation approach. Physics in Medicine and Biology, 2008, 53, 2923-2936. Gating based on internal/external signals with dynamic correlation updates. Physics in Medicine and	1.6 1.4 1.6	41 7 61
88 89 90	A monoscopic method for real-time tumour tracking using combined occasional x-ray imaging and continuous respiratory monitoring. Physics in Medicine and Biology, 2008, 53, 2837-2855. Tracking of internal organ motion with a six degree-of-freedom MEMS sensor: concept and simulation study. Measurement Science and Technology, 2008, 19, 024006. Inference of hysteretic respiratory tumor motion from external surrogates: a state augmentation approach. Physics in Medicine and Biology, 2008, 53, 2923-2936. Gating based on internal/external signals with dynamic correlation updates. Physics in Medicine and Biology, 2008, 53, 7137-7150. An analysis of thoracic and abdominal tumour motion for stereotactic body radiotherapy patients.	1.6 1.4 1.6	 41 7 61 53
87 88 89 90	A monoscopic method for real-time tumour tracking using combined occasional x-ray imaging and continuous respiratory monitoring. Physics in Medicine and Biology, 2008, 53, 2837-2855. Tracking of internal organ motion with a six degree-of-freedom MEMS sensor: concept and simulation study. Measurement Science and Technology, 2008, 19, 024006. Inference of hysteretic respiratory tumor motion from external surrogates: a state augmentation approach. Physics in Medicine and Biology, 2008, 53, 2923-2936. Gating based on internal/external signals with dynamic correlation updates. Physics in Medicine and Biology, 2008, 53, 7137-7150. An analysis of thoracic and abdominal tumour motion for stereotactic body radiotherapy patients. Physics in Medicine and Biology, 2008, 53, 3623-3640. A fiducial detection algorithm for real-time image guided IMRT based on simultaneous MV and kV	1.6 1.4 1.6 1.6	41 7 61 53 158

#	Article	IF	CITATIONS
95	Locating and targeting moving tumors with radiation beams. Medical Physics, 2008, 35, 5684-5694.	1.6	40
96	Fast internal marker tracking algorithm for onboard MV and kV imaging systems. Medical Physics, 2008, 35, 1942-1949.	1.6	52
97	2008, 35, 1191-1198.	1.6	112
98		1.6	111
99	NOVALIS FRAMELESS IMAGE-GUIDED NONINVASIVE RADIOSURGERY. Neurosurgery, 2008, 62, A11-A18.	0.6	54
100	On the accuracy of a moving average algorithm for target tracking during radiation therapy treatment delivery. Medical Physics, 2008, 35, 2356-2365.	1.6	31
101	Challenge and Hope in Radiotherapy of Hepatocellular Carcinoma. Yonsei Medical Journal, 2009, 50, 601.	0.9	57
102	Extracranial Stereotactic Radiotherapy: Preliminary Results with the CyberKnife®. Oncology Research and Treatment, 2009, 32, 209-215.	0.8	28
103	Quality Assurance of Internal/External Tumor Motion. , 2009, , .		0
104	Algorithm and simulation for realâ€ŧime positron emission based tumor tracking using a linear fiducial marker. Medical Physics, 2009, 36, 1576-1586.	1.6	6
105	Respiratory gating with EPID-based verification: the MDACC experience. Physics in Medicine and Biology, 2009, 54, 3379-3391.	1.6	22
106	Use of MV and kV imager correlation for maintaining continuous real-time 3D internal marker tracking during beam interruptions. Physics in Medicine and Biology, 2009, 54, 91-105.	1.6	14
107	Synchronized moving aperture radiation therapy (SMART): superimposing tumor motion on IMRT MLC leaf sequences under realistic delivery conditions. Physics in Medicine and Biology, 2009, 54, 4993-5007.	1.6	14
108	Speed and accuracy of a beam tracking system for treatment of moving targets with scanned ion beams. Physics in Medicine and Biology, 2009, 54, 4849-4862.	1.6	69
109	Fluoroscopic tumor tracking for image-guided lung cancer radiotherapy. Physics in Medicine and Biology, 2009, 54, 981-992.	1.6	108
110	Real-time motion-adaptive-optimization (MAO) in TomoTherapy. Physics in Medicine and Biology, 2009, 54, 4373-4398.	1.6	24
111	Real-time prostate trajectory estimation with a single imager in arc radiotherapy: a simulation study. Physics in Medicine and Biology, 2009, 54, 4019-4035.	1.6	49
112	Compensating for Tumor Motion by a 6-Degree-of-Freedom Treatment Couch: Is Patient Tolerance an Issue?. International Journal of Radiation Oncology Biology Physics, 2009, 74, 168-171.	0.4	25

#	Article	IF	CITATIONS
113	Image-Guided Radiotherapy in Near Real Time With Intensity-Modulated Radiotherapy Megavoltage Treatment Beam Imaging. International Journal of Radiation Oncology Biology Physics, 2009, 75, 603-610.	0.4	27
114	Initial validations for pursuing irradiation using a gimbals tracking system. Radiotherapy and Oncology, 2009, 93, 45-49.	0.3	73
115	Complications Associated with the Percutaneous Insertion of Fiducial Markers in the Thorax. CardioVascular and Interventional Radiology, 2010, 33, 1186-1191.	0.9	97
116	Clinical Experience With Image-Guided Radiotherapy in an Accelerated Partial Breast Intensity-Modulated Radiotherapy Protocol. International Journal of Radiation Oncology Biology Physics, 2010, 76, 528-534.	0.4	36
117	Dynamic Multileaf Collimator Tracking of Respiratory Target Motion Based on a Single Kilovoltage Imager During Arc Radiotherapy. International Journal of Radiation Oncology Biology Physics, 2010, 77, 600-607.	0.4	63
118	Influence of Continuous Table Motion on Patient Breathing Patterns. International Journal of Radiation Oncology Biology Physics, 2010, 77, 622-629.	0.4	25
119	Image-Based Motion Detection: Using the Concept of Weighted Directional Descriptors. IEEE Engineering in Medicine and Biology Magazine, 2010, 29, 87-94.	1.1	1
120	An inverse hyper-spherical harmonics-based formulation for reconstructing 3D volumetric lung deformations. Comptes Rendus - Mecanique, 2010, 338, 461-473.	2.1	15
121	Implementation of a New Method for Dynamic Multileaf Collimator Tracking of Prostate Motion in Arc Radiotherapy Using a Single kV Imager. International Journal of Radiation Oncology Biology Physics, 2010, 76, 914-923.	0.4	59
122	Impact of Volumetric Modulated Arc Therapy Technique on Treatment With Partial Breast Irradiation. International Journal of Radiation Oncology Biology Physics, 2010, 78, 288-296.	0.4	58
123	Real-time tumor tracking using sequential kV imaging combined with respiratory monitoring: a general framework applicable to commonly used IGRT systems. Physics in Medicine and Biology, 2010, 55, 3299-3316.	1.6	50
124	A Spring–Dashpot System for Modelling Lung Tumour Motion in Radiotherapy. Computational and Mathematical Methods in Medicine, 2010, 11, 13-26.	0.7	7
126	Incorporating system latency associated with real-time target tracking radiotherapy in the dose prediction step. Physics in Medicine and Biology, 2010, 55, 2651-2668.	1.6	14
127	Gating and tracking, 4D in thoracic tumours. Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique, 2010, 14, 446-454.	0.6	51
128	Heavy-ion tumor therapy: Physical and radiobiological benefits. Reviews of Modern Physics, 2010, 82, 383-425.	16.4	606
129	Modeling and uncertainty quantification of motion of lung tumors for image guided radiation therapy. , 2010, , .		0
130	On challenges of robot assisted radiotherapy for lung tumors. , 2010, , .		0
131	3D Bayesian Tracking with a Single Imager for Real-Time Image Guidance in Prostate Radiation Therapy. , 2011, , .		0

#	Article	IF	Citations
132	Cranial Stereotactic Radiosurgery. Medical Radiology, 2011, , 335-362.	0.0	0
133	Locating and Targeting Moving Tumors with Radiation Beams. Frontiers of Radiation Therapy and Oncology, 2011, 43, 118-131.	1.4	9
134	Radar motion sensing for accurate tumor tracking in radiation therapy. , $2011, \ldots$		19
135	A Bayesian approach to realâ€time 3D tumor localization via monoscopic xâ€ray imaging during treatment delivery. Medical Physics, 2011, 38, 4205-4214.	1.6	38
136	Real time 4D IMRT treatment planning based on a dynamic virtual patient model: Proof of concept. Medical Physics, 2011, 38, 2639-2650.	1.6	12
137	Report of AAPM TG 135: Quality assurance for robotic radiosurgery. Medical Physics, 2011, 38, 2914-2936.	1.6	196
138	Survey: Real-Time Tumor Motion Prediction for Image-Guided Radiation Treatment. Computing in Science and Engineering, 2011, 13, 24-35.	1.2	39
139	Frameless Image-Guided Stereotactic Body Radiation Therapy for Lung Tumors with 4-Dimensional Computed Tomography or 4-Dimensional Positron Emission Tomography/ Computed Tomography. Clinical Lung Cancer, 2011, 12, 180-186.	1.1	9
140	Tracking by means of geodesic region models applied to multidimensional and complex medical images. Computer Vision and Image Understanding, 2011, 115, 1083-1098.	3.0	4
141	Dosimetric Analysis of Respiratory-Gated Radiotherapy for Hepatocellular Carcinoma. Medical Dosimetry, 2011, 36, 213-218.	0.4	8
142	Motion in radiotherapy: particle therapy. Physics in Medicine and Biology, 2011, 56, R113-R144.	1.6	295
144	The radiobiological <i>P</i> _{<i>+</i>} index for pretreatment plan assessment with emphasis on fourâ€dimensional radiotherapy modalities. Medical Physics, 2012, 39, 6420-6430.	1.6	5
145	Emission guided radiation therapy for lung and prostate cancers: A feasibility study on a digital patient. Medical Physics, 2012, 39, 7140-7152.	1.6	38
146	The CyberKnife radiosurgery system for lung cancer. Expert Review of Medical Devices, 2012, 9, 465-475.	1.4	56
147	Towards more precise, minimally-invasive tumour treatment under free breathing., 2012, 2012, 3748-51.		3
148	Real-time tumor motion estimation using respiratory surrogate via memory-based learning. Physics in Medicine and Biology, 2012, 57, 4771-4786.	1.6	13
149	Experimental investigation of a general real-time 3D target localization method using sequential kV imaging combined with respiratory monitoring. Physics in Medicine and Biology, 2012, 57, 7395-7407.	1.6	16
150	A compensating system of respiratory motion for tumor tracking: Design and verification. Journal of X-Ray Science and Technology, 2012, 20, 161-174.	0.7	6

#	ARTICLE	IF	CITATIONS
151	Effectiveness of external respiratory surrogates for <i>in vivo</i> liver motion estimation. Medical Physics, 2012, 39, 5293-5301.	1.6	6
152	Review on 4D Models for Organ Motion Compensation. Critical Reviews in Biomedical Engineering, 2012, 40, 135-154.	0.5	23
153	A phantom-based evaluation of a real-time tracking micro MLC delivery. International Journal of Biomedical Engineering and Technology, 2012, 8, 274.	0.2	0
154	Megavoltage Image-Based Dynamic Multileaf Collimator Tracking of a NiTi Stent in Porcine Lungs on a Linear Accelerator. International Journal of Radiation Oncology Biology Physics, 2012, 82, e321-e327.	0.4	20
155	A Novel Markerless Technique to Evaluate Daily Lung Tumor Motion Based on Conventional Cone-Beam CT Projection Data. International Journal of Radiation Oncology Biology Physics, 2012, 82, e749-e756.	0.4	35
156	Robust tumour tracking from 2D imaging using a population-based statistical motion model. , 2012, , .		93
157	Helical tomotherapy for SIB and hypo-fractionated treatments in lung carcinomas: A 4D Monte Carlo treatment planning study. Radiotherapy and Oncology, 2012, 104, 173-180.	0.3	23
158	A novel four-dimensional radiotherapy planning strategy from a tumor-tracking beam's eye view. Physics in Medicine and Biology, 2012, 57, 7579-7598.	1.6	71
160	Going Inside: Correlation between External and Internal Respiratory Motion., 2012, , 131-165.		0
161	Planning target volume assessment in lung tumors during 3D conformal radiotherapy by means of an aSi electronic portal imaging device in cine mode. Clinical and Translational Oncology, 2013, 15, 638-642.	1.2	0
162	Current status and future prospects of multi-dimensional image-guided particle therapy. Radiological Physics and Technology, 2013, 6, 249-272.	1.0	22
163	The on-going quest for treatment precision and conformality in radiotherapy. Radiotherapy and Oncology, 2013, 109, 337-341.	0.3	12
164	Prediction methods for synchronization of scanned ion beam tracking. Physica Medica, 2013, 29, 639-643.	0.4	4
165	Real time motion analysis in 4D medical imaging using conditional density propagation. , 2013, , .		0
166	Evaluation of the dose variation for prostate heavy charged particle therapy using four-dimensional computed tomography. Journal of Radiation Research, 2013, 54, 357-366.	0.8	7
167	Study on Predicting Tumor Motion via Memory-Based Learning. Advanced Materials Research, 2013, 760-762, 2068-2071.	0.3	0
168	Respiratory Gating for Radiotherapy: Main Technical Aspects and Clinical Benefits. ISRN Pulmonology, 2013, 2013, 1-13.	0.3	51
169	Joint surface reconstruction and 4D deformation estimation from sparse data and prior knowledge for markerâ€less Respiratory motion tracking. Medical Physics, 2013, 40, 091703.	1.6	4

#	Article	IF	Citations
170	Improving patient comfort using model predictive control in robot-assisted radiotherapy. , 2013, , .		0
171	Deep inspiration breathâ€hold technique guided by an optoâ€electronic system for extracranial stereotactic treatments. Journal of Applied Clinical Medical Physics, 2013, 14, 14-25.	0.8	20
172	Application of a spring-dashpot system to clinical lung tumor motion data. Medical Physics, 2013, 40, 021713.	1.6	5
173	Development and clinical evaluation of automatic fiducial detection for tumor tracking in cine megavoltage images during volumetric modulated arc therapy. Medical Physics, 2013, 40, 031708.	1.6	23
174	Study of the Respiratory Monitoring System by Using the MEMS Acceleration Sensor. Progress in Medical Physics, 2013, 24, 61.	0.4	2
175	Markerless Lung Tumor Motion Tracking by Dynamic Decomposition of X-Ray Image Intensity. Journal of Medical Engineering, 2013, 2013, 1-8.	1.1	9
176	Adaptive Treatment Planning. , 2014, , 471-485.		0
177	CT Applications for Radiation Treatment of Cancers. , 2014, , 3973-3986.		0
179	IGRT/ART phantom with programmable independent rib cage and tumor motion. Medical Physics, 2014, 41, 022106.	1.6	11
180	Model Predictive Control for Real-Time Tumor Motion Compensation in Adaptive Radiotherapy. IEEE Transactions on Control Systems Technology, 2014, 22, 635-651.	3.2	5
181	Dosimetric comparison of 3D conformal, IMRT, and V-MAT techniques for accelerated partial-breast irradiation (APBI). Medical Dosimetry, 2014, 39, 152-158.	0.4	31
182	Feasibility of respiratory motion-compensated stereoscopic X-ray tracking for bronchoscopy. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 199-209.	1.7	2
183	Ray-casting based evaluation framework for haptic force feedback during percutaneous transhepatic catheter drainage punctures. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 421-431.	1.7	15
184	Stereotactic Radiation Therapy. , 2014, , 505-527.		0
185	Motion prediction of lung tumor using Predicted Error-based Normalized Least Mean Square algorithm. , 2014, , .		5
186	Model-guided respiratory organ motion prediction of the liver from 2D ultrasound. Medical Image Analysis, 2014, 18, 740-751.	7.0	59
187	Quantitative simultaneous PET-MR imaging. , 2014, , .		1
188	Image-based retrospective 4D MRI for different anatomical orientations. , 2014, , .		1

#	Article	IF	CITATIONS
189	An intra-fraction markerless daily lung tumor localization algorithm for EPID images. , 2015, , .		0
190	An accurate algorithm to match imperfectly matched images for lung tumor detection without markers. Journal of Applied Clinical Medical Physics, 2015, 16, 131-140.	0.8	9
191	Liver 4DMRI: A retrospective imageâ€based sorting method. Medical Physics, 2015, 42, 4814-4821.	1.6	57
192	The Current Role of PET/CT in Radiotherapy Planning. Current Radiopharmaceuticals, 2015, 8, 38-44.	0.3	3
193	Study of Motion-induced Dose Error Caused by Irregular Tumor Motion in Helical Tomotherapy. Progress in Medical Physics, 2015, 26, 119.	0.4	О
194	Tactile Phantom Sensation for Coaching Respiration Timing. IEEE Transactions on Haptics, 2015, 8, 119-125.	1.8	8
195	A comparison of two clinical correlation models used for real-time tumor tracking of semi-periodic motion: A focus on geometrical accuracy in lung and liver cancer patients. Radiotherapy and Oncology, 2015, 115, 419-424.	0.3	31
196	Calculating tumor trajectory and doseâ€ofâ€theâ€day using coneâ€beam CT projections. Medical Physics, 2015, 42, 694-702.	1.6	8
197	Stereotactic Body Radiotherapy. , 2015, , .		3
198	Stereotactic Radiotherapy for Lung Tumors. , 2015, , 127-148.		1
199	Effect of secondary particles on image quality of dynamic flat panels in carbon ion scanning beam treatment. British Journal of Radiology, 2015, 88, 20140567.	1.0	4
200	Machine Learning in Radiation Oncology. , 2015, , .		97
201	Target delineation variability and corresponding margins of peripheral early stage NSCLC treated with stereotactic body radiotherapy. Radiotherapy and Oncology, 2015, 114, 361-366.	0.3	31
202	Feasibility Study of Robotics-based Patient Immobilization Device for Real-time Motion Compensation. Progress in Medical Physics, 2016, 27, 117.	0.4	4
203	Particle therapy of moving targetsâ€"the strategies for tumour motion monitoring and moving targets irradiation. British Journal of Radiology, 2016, 89, 20150275.	1.0	40
204	Optimum location of external markers using feature selection algorithms for realâ€time tumor tracking in externalâ€beam radiotherapy: a virtual phantom study. Journal of Applied Clinical Medical Physics, 2016, 17, 221-233.	0.8	3
205	The feasibility of using Microsoft Kinect v2 sensors during radiotherapy delivery. Journal of Applied Clinical Medical Physics, 2016, 17, 446-453.	0.8	7
206	A Novel Respiratory Motion Perturbation Model Adaptable to Patient Breathing Irregularities. International Journal of Radiation Oncology Biology Physics, 2016, 96, 1087-1096.	0.4	9

#	Article	IF	CITATIONS
207	Validation of a pretreatment delivery quality assurance method for the CyberKnife Synchrony system. Medical Physics, 2016, 43, 4565-4574.	1.6	5
208	Quantifying the accuracy of the tumor motion and area as a function of acceleration factor for the simulation of the dynamic keyhole magnetic resonance imaging method. Medical Physics, 2016, 43, 2639-2648.	1.6	6
209	Predicting Respiratory Motion for Real-Time Tumour Tracking in Radiotherapy. , 2016, , .		5
210	Lung diaphragm tracking in CBCT images using spatio-temporal MRF. Computerized Medical Imaging and Graphics, 2016, 53, 9-18.	3.5	4
211	Respiration correction by clustering in ultrasound images. , 2016, , .		O
212	Intra- and Inter-Fractional Variation Prediction of Lung Tumors Using Fuzzy Deep Learning. IEEE Journal of Translational Engineering in Health and Medicine, 2016, 4, 1-12.	2.2	60
213	Real time tracking in liver SBRT: comparison of CyberKnife and Vero by planning structure-based $\langle i \rangle \hat{I}^3 \langle i \rangle$ -evaluation and dose-area-histograms. Physics in Medicine and Biology, 2016, 61, 1677-1691.	1.6	28
214	Particle Radiotherapy., 2016, , .		5
215	Physiological Organ Motion Prediction and Compensation Based on Multirate, Delayed, and Unregistered Measurements in Robot-Assisted Surgery and Therapy. IEEE/ASME Transactions on Mechatronics, 2016, 21, 900-911.	3.7	16
216	A Feasibility Study on Ribs as Anatomical Landmarks for Motion Tracking of Lung and Liver Tumors at External Beam Radiotherapy. Technology in Cancer Research and Treatment, 2017, 16, 99-111.	0.8	8
217	The impacts of midâ€treatment <scp>CBCT</scp> â€guided patient repositioning on target coverage during lung <scp>VMAT</scp> . Journal of Medical Imaging and Radiation Oncology, 2017, 61, 543-549.	0.9	2
219	Image Fusion of Real-Time Ultrasonography with Computed Tomography: Factors Affecting the Registration Error and Motion of Focal Hepatic Lesions. Ultrasound in Medicine and Biology, 2017, 43, 2024-2032.	0.7	10
220	Daily CT guidance improves target coverage during definitive radiation therapy for gastric MALT lymphoma. Practical Radiation Oncology, 2017, 7, e471-e478.	1.1	13
221	An Introduction to Medical Physics. Biological and Medical Physics Series, 2017, , .	0.3	5
222	Imaged-guided liver stereotactic body radiotherapy using VMAT and real-time adaptive tumor gating. Concerns about technique and preliminary clinical results. Reports of Practical Oncology and Radiotherapy, 2017, 22, 141-149.	0.3	12
223	Optimization of a newly defined target volume in fiducial marker-based dynamic tumor-tracking radiotherapy. Physics and Imaging in Radiation Oncology, 2017, 4, 1-5.	1.2	7
224	Simulation and Experimental Studies of Real-Time Motion Compensation Using an Articulated Robotic Manipulator System. Progress in Medical Physics, 2017, 28, 171.	0.5	1
225	Motion Challenge of Thoracic Tumors at Radiotherapy by Introducing an Available Compensation Strategy., 0, , .		0

#	Article	IF	Citations
226	Markerless Tumor Gating and Tracking for Lung Cancer Radiotherapy based on Machine Learning Techniques. Intelligent Systems Reference Library, 2018, , 337-359.	1.0	1
227	Dosimetric and clinical effects of interfraction and intrafraction correlation errors during marker-based real-time tumor tracking for liver SBRT. Journal of Radiation Research, 2018, 59, 164-172.	0.8	1
228	Patient reported outcomes of slow, single arc rotation: Do we need rotating gantries?. Journal of Medical Imaging and Radiation Oncology, 2018, 62, 553-561.	0.9	10
229	Motion compensation with skin contact control for high intensity focused ultrasound surgery in moving organs. Physics in Medicine and Biology, 2018, 63, 035017.	1.6	19
230	A Novel Markerless Lung Tumor-Tracking Method Using Treatment MV Beam Imaging. Applied Sciences (Switzerland), 2018, 8, 2525.	1.3	5
231	Prediction of Lung Tumor Motion Based on Recurrent Neural Network. , 2018, , .		3
232	Motion management in particle therapy. Medical Physics, 2018, 45, e994-e1010.	1.6	41
233	Creating planning margins and imaging intervals for intracranial stereotactic radiosurgery treatment using patient log files. Biomedical Physics and Engineering Express, 2018, 4, 045019.	0.6	0
234	A Feasibility of Respiration Prediction Based on Deep Bi-LSTM for Real-Time Tumor Tracking. IEEE Access, 2018, 6, 51262-51268.	2.6	56
235	Imageâ€based retrospective 4D <scp>MRI</scp> in external beam radiotherapy: A comparative study with a digital phantom. Medical Physics, 2018, 45, 3161-3172.	1.6	21
236	Feasibility of realâ€time lung tumor motion monitoring using intrafractional ultrasound and <scp>kV</scp> cone beam projection images. Medical Physics, 2018, 45, 4619-4626.	1.6	10
237	Motion Management in Stereotactic Body Radiation Therapy. , 2019, , 195-215.		1
238	Beyond T2 and 3T: New MRI techniques for clinicians. Clinical and Translational Radiation Oncology, 2019, 18, 87-97.	0.9	10
239	Prediction of lung tumor motion using nonlinear autoregressive model with exogenous input. Physics in Medicine and Biology, 2019, 64, 21NTO2.	1.6	8
240	Management of radiotherapy patients with implanted cardiac pacemakers and defibrillators: A Report of the AAPM TGâ€203 ^{â€} . Medical Physics, 2019, 46, e757-e788.	1.6	77
241	Design and validation of a surgical navigation system for brachytherapy based on mixed reality. Medical Physics, 2019, 46, 3709-3718.	1.6	22
242	Reducing the tracking drift of an uncontoured tumor for a portal-image-based dynamically adapted conformal radiotherapy treatment. Medical and Biological Engineering and Computing, 2019, 57, 1657-1672.	1.6	7
243	High frequency percussive ventilation for respiratory immobilization in radiotherapy. Technical Innovations and Patient Support in Radiation Oncology, 2019, 9, 8-12.	0.6	11

#	Article	IF	Citations
244	Tracking, gating, free-breathing, which technique to use for lung stereotactic treatments? A dosimetric comparison. Reports of Practical Oncology and Radiotherapy, 2019, 24, 97-104.	0.3	24
245	Optimization based trajectory planning for real-time 6DoF robotic patient motion compensation systems. PLoS ONE, 2019, 14, e0210385.	1.1	12
246	The design of a dual channel synchronous control system based on a new percutaneous puncture surgical robot. Multimedia Tools and Applications, 2020, 79, 10405-10425.	2.6	3
247	COVID-19 Pandemic Spurs Medical Telerobotic Systems: A Survey of Applications Requiring Physiological Organ Motion Compensation. Frontiers in Robotics and Al, 2020, 7, 594673.	2.0	11
248	Couch and multileaf collimator tracking: A clinical feasibility study for pancreas and liver treatment. Medical Physics, 2020, 47, 4743-4757.	1.6	4
249	Real-time prediction of tumor motion using a dynamic neural network. Medical and Biological Engineering and Computing, 2020, 58, 529-539.	1.6	10
251	Projective Skip-Connections for Segmentation Along a Subset of Dimensions in Retinal OCT. Lecture Notes in Computer Science, 2021, , 431-441.	1.0	6
252	In-vivo dose measurements with MOSFET dosimeters during MV portal imaging. Reports of Practical Oncology and Radiotherapy, 2021, 26, 93-100.	0.3	1
253	On the interplay effect for moving targets treated with the CyberKnife static tracking system. Physica Medica, 2021, 90, 30-39.	0.4	3
254	4D Treatment Planning. , 2006, , 259-267.		1
255	Artificial Neural Networks to Emulate and Compensate Breathing Motion During Radiation Therapy. , 2015, , 203-223.		4
256	Image-Guided Radiation Therapy. Biological and Medical Physics Series, 2017, , 131-173.	0.3	4
257	Respiratory Motion Tracking for Robotic Radiosurgery. , 2007, , 15-29.		61
259	Review: Prediction of Respiratory Motion. Studies in Computational Intelligence, 2014, , 7-37.	0.7	3
260	SFUD, IMPT, and Plan Robustness., 2016, , 169-194.		9
261	Investigating the surface dose contribution of intrafractional kV imaging in CyberKnife-based stereotactic radiosurgery. Medical Dosimetry, 2017, 42, 304-309.	0.4	3
262	Measurements of human tolerance to horizontal rotation within an MRI scanner: Towards gantryâ€free radiation therapy. Journal of Medical Imaging and Radiation Oncology, 2021, 65, 112-119.	0.9	5
263	Physics, 2006, 33, 3874-3900.	1.6	43

#	ARTICLE	IF	CITATIONS
264	Emerging Role of Stereotactic Radiotherapy (SRT) in the Treatment of Early Stage Non-Small Cell Lung Cancer. Current Cancer Therapy Reviews, 2009, 5, 281-287.	0.2	2
265	Treatment Margin Assessment using Mega-Voltage Computed Tomography of a Tomotherapy Unit in the Radiotherapy of a Liver Tumor. The Journal of the Korean Society for Therapeutic Radiology and Oncology, 2008, 26, 280.	0.1	3
266	Markerless Respiratory Tumor Motion Prediction Using an Adaptive Neuro-fuzzy Approach. Journal of Medical Signals and Sensors, 2018, 8, 25.	0.5	10
269	4D CT Simulation. , 2006, , 247-257.		1
270	Medical physics practice in the next decade. Journal of Medical Physics, 2006, 31, 98.	0.1	0
271	On the Use of a Hexapod Table to Improve Tumour Targeting in Radiation Therapy. , 0, , .		3
272	Robotics and Radiosurgery. , 2008, , 163-170.		0
273	Tracking Organs Composed of One or Multiple Regions Using Geodesic Active Region Models. , 2009, , 37-52.		1
274	Developments in Chemoradiation for Advanced Pancreatic Cancer., 2010,, 951-970.		0
275	Image-Guided Adaptive Radiotherapy. , 2010, , 213-223.		2
276	Scanned Ion Beam Therapy of Moving Targets with Beam Tracking., 0,,.		0
278	A Computer-Controlled Dynamic Phantom for Respiratory-Gated Medical Radiotherapy Research. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 1609-1616.	0.2	0
279	4D PET-CT guided radiation therapy. Journal of the Belgian Society of Radiology, 2015, 96, 155.	0.2	3
281	Precision Technology in the Radiation Therapy. Journal of the Japan Society for Precision Engineering, 2014, 80, 247-251.	0.0	0
282	MRI-based IGRT for lung cancer. Imaging in Medical Diagnosis and Therapy, 2017, , 369-384.	0.0	0
283	Dynamic MLC Tracking Using 4D Lung Tumor Motion Modelling and EPID Feedback. Journal of Biomedical Physics and Engineering, 2019, 9, 417-424.	0.5	0
284	Markerless Respiratory Tumor Motion Prediction Using an Adaptive Neuro-fuzzy Approach. Journal of Medical Signals and Sensors, 2018, 8, 25-30.	0.5	1
286	Development and Evaluation of the Utility of a Respiratory Monitoring and Visual Feedback System for Radiotherapy Using Machine Vision Technology. Journal of Radiation Protection and Research, 2022, 47, 8-15.	0.3	0

#	ARTICLE	IF	CITATIONS
288	Respiratory Prediction Based on Multi-Scale Temporal Convolutional Network for Tracking Thoracic Tumor Movement. Frontiers in Oncology, 0, 12 , .	1.3	2
290	An integrated ultrasound imaging and abdominal compression device for respiratory motion management in radiation therapy. Medical Physics, 2022, 49, 6334-6345.	1.6	1
291	Prediction of Lung Tumor's Motion Using LSTM Model. Lecture Notes in Networks and Systems, 2023, , 604-612.	0.5	0
292	A novel external/internal tumor tracking approach to compensate for respiratory motion baseline drifts. Physics in Medicine and Biology, 2023, 68, 055017.	1.6	1