Dan Ionascu

List of Publications by Year in descending order

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1 Fluoroscopic 3D Image Concretion from Patient Specific PCA Motion Models Derived from 4D CBCT 1.7 4 2 Inhibitor Response by Promoting Direct and T Cell-Medicard Antimion Activity, International Journal of Realistion Oncology Biology Physics, 2021, 109, 1040-1053. 0.4 18 3 Differential transcriptome response to proton versus X-ay relation nevels novel candidate targets of Realistion Oncology Biology Physics, 2021, 109, 1040-1053. 0.3 0 4 Quantifying day-to-day variations in 4DCBCT-based PCA motion models. Biomedical Physics and projections. Medical Physics, 2019, 46, 3627-3639. 0.6 4 5 Reconstruction of a high-Sequality volumetric image and a respiratory motion model from patient CBCT 1.6 10 6 The evaluation of a high-Sequality volumetric image and a respiratory motion model from patient CBCT 1.2 12 7 Inter-fraction variations in motion modeling using patient 4D-cone beam CT images., 2018, 1 1 8 Toxicity After Central versus Peripheral Lung Screentactic Body Realistion Therapy: A Propensity Score Matched-Pair Analysis. International Journal of Realistion therapy for brain metastases a planning analysis. 0.7 5 10 Interstry-modulated radiation therapy or volumetric-modulated arc therapy to reduce alopecia, isourd of Realistion Oncology, 2013, 2, 177-183. 0.4 10 11 A	#	Article	IF	CITATIONS
12Melanoma Cell Intrinsic GABAA Receptor Enhancement Potentiates Radiation and Immune Checkpoint Inhibitor Response by Promoting Direct and T Cell Mediated Antitumor Activity, International Journal of Internation Oncology Moles, Physics, 2021, 105, 1040-1053.0.4186.0Differential transcriptome response to proton versus X-ray radiation reveals novel candidate targets for combinatorial PT therapy in Jymphona. Radiotherapy and Oncology, 2021, 155, 293-303.0.646.1Quantifying dayto-day variations in 40CBCT-based PCA motion models. Biomedical Physics and regeneering Express, 2020, 6, 035020.1.01007.1Reconstruction of a high-Squality volumetric image and a respiratory motion model from patient CBCT1.61007.2The evaluation of a hybrid biomechanical deformable registration method on a multistage physical1.2127.3Inter-fraction variations in motion modeling using patient 4D-cone beam CI images, 2018, 1, 124-112.0.4327.4Explanation of Image guided motion management methods in lung cancer radiotherapy. Apogensity Score Ratched Pair Analysis. International Journal of Radiation Oncology Biology Physics, 2015, 61, 124-132.0.4327.3Internstry-modulated radiation therapy or volumetric-modulated are therapy to reduce alopecia, scorotiny, and ottis after whole brain radiation physics, 2013, 40, 081905.0.637.4Internstry-modulated radiation Oncology, Biology Physics, 2013, 40, 081905.0.637.4Reconstruction of a high-foculation therapy or volumetric-modulated are therapy to reduce alopecia, reorstry, and ottis after whole brain radiation Physics, 2013, 40, 081905.0.63 <td>1</td> <td>Fluoroscopic 3D Image Generation from Patient-Specific PCA Motion Models Derived from 4D-CBCT Patient Datasets: A Feasibility Study. Journal of Imaging, 2022, 8, 17.</td> <td>1.7</td> <td>4</td>	1	Fluoroscopic 3D Image Generation from Patient-Specific PCA Motion Models Derived from 4D-CBCT Patient Datasets: A Feasibility Study. Journal of Imaging, 2022, 8, 17.	1.7	4
aDifferential transcriptome response to proton versus X-ray radiation reveals novel candidate targets0.354Quantifying day-to-day variations in ADCBCT-based PCA motion models. Biomedical Physics and0.645Reconstruction of a higha Equality volumetric image and a respiratory motion model from patient CBCT1.6106The evaluation of a higha Equality volumetric image and a respiratory motion model from patient CBCT1.6107Inter-fraction variations in motion modeling using patient 4D-cone beam CT images. 2015,1.2128Toxicity After Central versus Peripheral Lung Stereotactic Body Radiation Therapy. A Propensity Score Matched Pair Analysis. International Journal of Radiation Oncology Biology Physics, 2015, 91, 124-132.0.4329Evaluation of image guided motion management methods in lung cancer radiotherapy. Medical Physics.0.7510Intensfraction algorithm for 3D realactime lung turnor tracking during analysis.0.7511An optimization algorithm for 3D realactime lung turnor tracking during arc therapy (R) for rectal cancer and of Radiation Aboust (Physics, 2013, 40, 081909.1.6112Technical Note: Agebraic Iterative image for Optimal Coverage of Phinapy (R) for rectal cancer transform on the Redical Physics, 2013, 40, 081909.0.43213Relationship between volume of bone irradiated during pevice radiation therapy (R) for rectal cancer 	2	Melanoma Cell Intrinsic GABAA Receptor Enhancement Potentiates Radiation and Immune Checkpoint Inhibitor Response by Promoting Direct and T Cell-Mediated Antitumor Activity. International Journal of Radiation Oncology Biology Physics, 2021, 109, 1040-1053.	0.4	18
1Quantifying day-to-day variations in 40CBCT-based PCA motion models. Biomedical Physics and Engineering Express, 2020, 6, 035020.0.645Reconstruction of a high-\$equality volumetric image and a respiratory motion model from patient CBCT1.6106The evaluation of a hybrid biomechanical deformable registration method on a multistage physical phantom with reproducible deformation. Rediation Oncology, 2018, 13, 240.1.21.27Inter-fraction variations in motion modeling using patient 4D-cone beam CT images., 2016,0.4328Toxicity After Central versus Peripheral Lung Stereotactic Body Radiation Therapy: A Progensity Score Matched Pair Analysis. International Journal of Radiation Oncology Biology Physics, 2015, 91, 124-132.0.4329Evaluation of image guided motion management methods in lung cancer radiotherapy. Medical Physics.0.6710Internsity-modulated radiation therapy or volumetric-modulated arc therapy to reduce alopecia, Journal of Radiation Oncology, 2013, 40, 101710.812Technical Note: Algebraic Iterative Image reconstruction using a cylindrical Image grid for Technical Note: Algebraic Iterative Image reconstruction using a cylindrical image grid for Invelwed Nodes Based on Multiple Four-Dimensional Of Classing Ortical Oncology, 2013, 13, 1551-551.0.413213Relationship between volume of bone Irradiated Hwysics, 2013, 40, 081905.0.413214Comparison of IGRT Registration Strategies for Optimal Coverage of Primary Lung Turnors and 	3	Differential transcriptome response to proton versus X-ray radiation reveals novel candidate targets for combinatorial PT therapy in lymphoma. Radiotherapy and Oncology, 2021, 155, 293-303.	0.3	5
8Reconstruction of a highsGquality volumetric image and a respiratory motion model from patient CBCT1.6106The evaluation of a hybrid biomechanical deformable registration method on a multistage physical phantom with reproducible deformation. Radiation Oncology, 2018, 13, 240.1.2127Inter-fraction variations in motion modeling using patient 4D-cone beam CT images., 2018,18Toxicity After Central versus Peripheral Lung Stereotactic Body Radiation Therapy: A Propensity Score Matched-Pair Analysis. International Journal of Radiation Oncology Biology Physics, 2015, 91, 124-132.0.4329Evaluation of image guided motion management methods in lung cancer radiotherapy. Medical Physics.1.6710Intensity-modulated radiation therapy or volumetric-modulated arc therapy to reduce alopecia, xerostornia, and otitis after whole brain radiation therapy for brain metastases: a planning analysis.0.7511An optimization algorithm for 3D real3etime lung tumor tracking during arc therapy using kV1.6812Technical Note: Algebraic Iterative Image reconstruction using a cylindrical Image grid for tetrahedron beam computed tomography. Medical Physics, 2013, 40, 081909.1.6113Relationship between volume of bone irradiated during pevic radiation therapy (RT) for rectal cancer and complete blood counts (CBC). Journal of Clinical Oncology, 2013, 13, 1551-551.0.8014Comparison of IGTT Registration Strategies for Optimal Coverage of Primary Lung Tumors and howled Nodes Based on Multiple Four-Dimensional Cl Scars Obtained Throughout the Radiotherapy course. International Journal of Applied Clinical Medical Physic	4	Quantifying day-to-day variations in 4DCBCT-based PCA motion models. Biomedical Physics and Engineering Express, 2020, 6, 035020.	0.6	4
6The evaluation of a hybrid biomechanical deformable registration method on a multistage physical1.2127Inter-fraction variations in motion modeling using patient 40-cone beam CT images., 2018,18Toxicity After Central versus Peripheral Lung Stereotactic Body Radiation Therapy: A Propensity Score Matched-Pair Analysis. International Journal of Radiation Oncology Biology Physics, 2015, 91, 124-132.0.4329Evaluation of image guided motion management methods in lung cancer radiotherapy. Medical Physics, Journal of Radiation Oncology, 2013, 2, 177-183.0.7510Intensity-modulated radiation therapy or volumetric-modulated arc therapy to reduce alopecia, xerostomia, and otitis after whole brain radiation thrapy for brain metastases: a planning analysis.0.7511An optimization algorithm for 3D realsétime lung tumor tracking during arc therapy using kV rejection images. Medical Physics, 2013, 40, 101710.1.6812Technical Note: Agebraic treative image reconstruction using a cylindrical image grid for tetrahedron beam computed tomography. Medical Physics, 2013, 31, 551-551.0.8013Relationship between volume of bone irradiated during pewkic radiation therapy (RT) for rectal cancer and complete blood counts (CBC). Journal of Clinical Coverage of Primary Lung Thuroge and Course. International Journal of Radiation Oncology Biology Physics, 2013, 31, 551-551.0.82214Motion artifacts occurring at the lung/diaphragm interface using 4D CT attenuation correction of 4D PFT scans. Journal of Applied Clinical Medical Physics, 2011, 12, 261-274.0.82216Coupling surface cameras with on-board fluoros	5	Reconstruction of a highâ€quality volumetric image and a respiratory motion model from patient CBCT projections. Medical Physics, 2019, 46, 3627-3639.	1.6	10
7Inter-fraction variations in motion modeling using patient 4D-cone beam CT images., 2018,,18Toxicity After Central versus Peripheral Lung Stereotactic Body Radiation Therapy: A Propensity Score Matched-Pair Analysis. International Journal of Radiation Oncology Biology Physics, 2015, 91, 124-132.0.4329Evaluation of image guided motion management methods in lung cancer radiotherapy. Medical Physics, 2014, 41, 031911.1.6710Intensity-modulated radiation therapy or volumetric-modulated arc therapy to reduce alopecia, isournal of Radiation Oncology, 2013, 2, 177-183.0.7511An optimization algorithm for 3D realaCtime lung tumor tracking during arc therapy using kV1.6812Technical Note: Algebraic iterative image reconstruction using a cylindrical image grid for tetrahedron beam computed tomography. Medical Physics, 2013, 40, 081909.0.8013Relationship between volume of bone irradiated during pelvic radiation therapy (RT) for rectal cancer hvoived Nodes Based on Multiple Four-Dimensional CT Scans Obtained Throughout the Radiotherapy Course. International Journal of Radiation Oncology Biology Physics, 2012, 42, 1541-1548.0.82214Motion artifacts occurring at the lung/diaphragm interface using 4D CT attenuation correction of 4D PET scans. Journal of Applied Clinical Medical Physics, 2011, 42, 1541-1548.0.82216Coupling surface cameras with on-board fluoroscopy: A feasibility study. Medical Physics, 2011, 33, 2937-2947.1.618	6	The evaluation of a hybrid biomechanical deformable registration method on a multistage physical phantom with reproducible deformation. Radiation Oncology, 2018, 13, 240.	1.2	12
8Toxicity After Central versus Peripheral Lung Stereotactic Body Radiation Therapy: A Propensity Score Matched-Pair Analysis. International Journal of Radiation Oncology Biology Physics, 2015, 91, 124-132.0.4329Evaluation of image guided motion management methods in lung cancer radiotherapy. Medical Physics, 2014, 41, 031911.1.6710Intensity-modulated radiation therapy or volumetric-modulated arc therapy to reduce alopecia, Journal of Radiation Oncology, 2013, 2, 177-183.0.7511An optimization algorithm for 3D real&6time lung tumor tracking during arc therapy using kV projection images. Medical Physics, 2013, 40, 101710.1.6812Technical Note: Algebraic iterative image reconstruction using a cylindrical image grid for tetrahedron beam computed tomography. Medical Physics, 2013, 40, 081909.1.6113Relationship between volume of bone irradiated during pelvic radiation therapy (RT) for rectal cancer Involved Nodes Based on Multiple Four-Dimensional CT Scans Obtained Throughout the Radiotherapy Nodived Physics, 2011, 12, 261-274.0.41314Motion artifacts occurring at the lung/diaphragm interface using 4D CT attenuation correction of 4D PET scans. Journal of Applied Clinical Multiple, 2011, 12, 261-274.0.82216Coupling surface cameras with on-board fluoroscopy: A feasibility study. Medical Physics, 2011, 33, 51, 51, 51, 513.61.6	7	Inter-fraction variations in motion modeling using patient 4D-cone beam CT images. , 2018, , .		1
9Evaluation of image guided motion management methods in lung cancer radiotherapy. Medical Physics, 2014, 41, 031911.1.6710Intensity-modulated radiation therapy or volumetric-modulated arc therapy to reduce alopecia, yournal of Radiation Oncology, 2013, 2, 177-183.0.7511An optimization algorithm for 3D realâCtime lung tumor tracking during arc therapy using kV1.6812Technical Note: Algebraic iterative image reconstruction using a cylindrical image grid for tetrahedron beam computed tomography. Medical Physics, 2013, 40, 001710.1.6113Relationship between volume of bone irradiated during pelvic radiation therapy (RT) for rectal cancer and complete blood counts (CBC). Journal of Clinical Oncology, 2013, 31, 551-551.0.8014Comparison of IGRT Registration Strategies for Optimal Coverage of Primary Lung Tumors and Involved Nodes Based on Multiple Four-Dimensional CT Scans Obtained Throughout the Radiotherapy Course. International Journal of Radiation Oncology Biology Physics, 2012, 82, 1541-1548.0.82216Coupling surface cameras with on-board fluoroscopy: A feasibility study. Medical Physics, 2011, 38, 2937-2947.1.618	8	Toxicity After Central versus Peripheral Lung Stereotactic Body Radiation Therapy: A Propensity Score Matched-Pair Analysis. International Journal of Radiation Oncology Biology Physics, 2015, 91, 124-132.	0.4	32
10Intensity-modulated radiation therapy or volumetric-modulated arc therapy to reduce alopecia, yerostomia, and otitis after whole brain radiation therapy for brain metastases: a planning analysis.0.7511An optimization algorithm for 3D realâ€time lung tumor tracking during arc therapy using kV1.6812Technical Note: Algebraic iterative image reconstruction using a cylindrical image grid for tetrahedron beam computed tomography. Medical Physics, 2013, 40, 081909.1.6113Relationship between volume of bone irradiated during pelvic radiation therapy (RT) for rectal cancer and complete blood counts (CBC) Journal of Clinical Oncology, 2013, 31, 551-551.0.41314Comparison of IGRT Registration Strategies for Optimal Coverage of Primary Lung Tumors and 	9	Evaluation of image guided motion management methods in lung cancer radiotherapy. Medical Physics, 2014, 41, 031911.	1.6	7
11An optimization algorithm for 3D realâ <time arc="" during="" kv<br="" lung="" therapy="" tracking="" tumor="" using=""></time> projection images. Medical Physics, 2013, 40, 101710.1.6812Technical Note: Algebraic iterative image reconstruction using a cylindrical image grid for tetrahedron beam computed tomography. Medical Physics, 2013, 40, 081909.1.6113Relationship between volume of bone irradiated during pelvic radiation therapy (RT) for rectal cancer and complete blood counts (CBC) Journal of Clinical Oncology, 2013, 31, 551-551.0.8014Comparison of IGRT Registration Strategies for Optimal Coverage of Primary Lung Tumors and Involved Nodes Based on Multiple Four-Dimensional CT Scans Obtained Throughout the Radiotherapy Course. International Journal of Radiation Oncology Biology Physics, 2012, 82, 1541-1548.0.41315Motion artifacts occurring at the lung/diaphragm interface using 4D CT attenuation correction of 4D PET scans. Journal of Applied Clinical Medical Physics, 2011, 12, 261-274.0.82216Coupling surface cameras with on-board fluoroscopy: A feasibility study. Medical Physics, 2011, 38, 2937-2947.1.618	10	Intensity-modulated radiation therapy or volumetric-modulated arc therapy to reduce alopecia, xerostomia, and otitis after whole brain radiation therapy for brain metastases: a planning analysis. Journal of Radiation Oncology, 2013, 2, 177-183.	0.7	5
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13Relationship between volume of bone irradiated during pelvic radiation therapy (RT) for rectal cancer and complete blood counts (CBC) Journal of Clinical Oncology, 2013, 31, 551-551.0.8014Comparison of IGRT Registration Strategies for Optimal Coverage of Primary Lung Tumors and Involved Nodes Based on Multiple Four-Dimensional CT Scans Obtained Throughout the Radiotherapy Course. International Journal of Radiation Oncology Biology Physics, 2012, 82, 1541-1548.0.41315Motion artifacts occurring at the lung/diaphragm interface using 4D CT attenuation correction of 4D 	12	Technical Note: Algebraic iterative image reconstruction using a cylindrical image grid for tetrahedron beam computed tomography. Medical Physics, 2013, 40, 081909.	1.6	1
14Comparison of IGRT Registration Strategies for Optimal Coverage of Primary Lung Tumors and Involved Nodes Based on Multiple Four-Dimensional CT Scans Obtained Throughout the Radiotherapy Course. International Journal of Radiation Oncology Biology Physics, 2012, 82, 1541-1548.0.41315Motion artifacts occurring at the lung/diaphragm interface using 4D CT attenuation correction of 4D PET scans. Journal of Applied Clinical Medical Physics, 2011, 12, 261-274.0.82216Coupling surface cameras with on-board fluoroscopy: A feasibility study. Medical Physics, 2011, 38, 2937-2947.1.618	13	Relationship between volume of bone irradiated during pelvic radiation therapy (RT) for rectal cancer and complete blood counts (CBC) Journal of Clinical Oncology, 2013, 31, 551-551.	0.8	0
15Motion artifacts occurring at the lung/diaphragm interface using 4D CT attenuation correction of 4D PET scans. Journal of Applied Clinical Medical Physics, 2011, 12, 261-274.0.82216Coupling surface cameras with on-board fluoroscopy: A feasibility study. Medical Physics, 2011, 38, 2937-2947.1.618	14	Comparison of IGRT Registration Strategies for Optimal Coverage of Primary Lung Tumors and Involved Nodes Based on Multiple Four-Dimensional CT Scans Obtained Throughout the Radiotherapy Course. International Journal of Radiation Oncology Biology Physics, 2012, 82, 1541-1548.	0.4	13
16Coupling surface cameras with on-board fluoroscopy: A feasibility study. Medical Physics, 2011, 38, 2937-2947.1.618	15	Motion artifacts occurring at the lung/diaphragm interface using 4D CT attenuation correction of 4D PET scans. Journal of Applied Clinical Medical Physics, 2011, 12, 261-274.	0.8	22
	16	Coupling surface cameras with on-board fluoroscopy: A feasibility study. Medical Physics, 2011, 38, 2937-2947.	1.6	18
Evaluation of the interplay effect when using RapidArc to treat targets moving in the craniocaudal or rightâ€left direction. Medical Physics, 2010, 37, 4-11. 1.6 70	17	Evaluation of the interplay effect when using RapidArc to treat targets moving in the craniocaudal or rightâ€left direction. Medical Physics, 2010, 37, 4-11.	1.6	70

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#	Article	IF	CITATIONS
19	Automatic marker detection and 3D position reconstruction using cine EPID images for SBRT verification. Medical Physics, 2009, 36, 4536-4546.	1.6	40
20	Low-Frequency Dynamics of Caldariomyces fumago Chloroperoxidase Probed by Femtosecond Coherence Spectroscopy. Biochemistry, 2008, 47, 5156-5167.	1.2	17
21	Evaluation of the combined effects of target size, respiratory motion and background activity on 3D and 4D PET/CT images. Physics in Medicine and Biology, 2008, 53, 3661-3679.	1.6	103
22	Management of the interplay effect when using dynamic MLC sequences to treat moving targets. Medical Physics, 2008, 35, 1926-1931.	1.6	54
23	A novel method for estimating SBRT delivered dose with beam's-eye-view images. Medical Physics, 2008, 35, 3225-3231.	1.6	22
24	Coherence Spectroscopy Investigations of the Low-Frequency Vibrations of Heme: Effects of Protein-Specific Perturbations. Journal of the American Chemical Society, 2008, 130, 5231-5244.	6.6	37
25	Internalâ€external correlation investigations of respiratory induced motion of lung tumors. Medical Physics, 2007, 34, 3893-3903.	1.6	177
26	Temperature-dependent heme kinetics with nonexponential binding and barrier relaxation in the absence of protein conformational substates. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14682-14687.	3.3	35
27	Low Frequency Spectral Density of Ferrous Heme: Perturbations Induced by Axial Ligation and Protein Insertion. Biophysical Journal, 2007, 93, 4404-4413.	0.2	23
28	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
29	Optical scanning instrument for ultrafast pump-probe spectroscopy of biomolecules at cryogenic temperatures. Review of Scientific Instruments, 2006, 77, 064303.	0.6	7
30	Two-color pump-probe laser spectroscopy instrument with picosecond time-resolved electronic delay and extended scan range. Review of Scientific Instruments, 2005, 76, 114301.	0.6	45
31	Temperature-Dependent Studies of NO Recombination to Heme and Heme Proteins. Journal of the American Chemical Society, 2005, 127, 16921-16934.	6.6	84
32	CO Rebinding to Protoheme:  Investigations of the Proximal and Distal Contributions to the Geminate Rebinding Barrier. Journal of the American Chemical Society, 2005, 127, 5854-5861.	6.6	42
33	Rapid timescale processes and the role of electronic surface coupling in the photolysis of diatomic ligands from heme proteins. Faraday Discussions, 2004, 127, 123.	1.6	34
34	Investigations of Heme Protein Absorption Line Shapes, Vibrational Relaxation, and Resonance Raman Scattering on Ultrafast Time Scalesâ€. Journal of Physical Chemistry A, 2003, 107, 8156-8165.	1.1	74
35	Low Frequency Modes in Heme Proteins. Bulletin of the Chemical Society of Japan, 2002, 75, 1093-1101.	2.0	3
36	Investigations of Anharmonic Low-Frequency Oscillations in Heme Proteins. Journal of Physical Chemistry A, 2002, 106, 3540-3552.	1.1	71

#	Article	IF	CITATIONS
37	Femtosecond coherence spectroscopy using spectrally selective differential photodetection. Chemical Physics Letters, 2001, 337, 107-116.	1.2	20
38	Wavelength selective modulation in femtosecond pump–probe spectroscopy and its application to heme proteins. Journal of Chemical Physics, 2001, 114, 10884-10898.	1.2	36