

Jinzhong Yang

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

4,760
citations

145106

33
h-index

120465

65
g-index

113
all docs

113
docs citations

113
times ranked

6036
citing authors

#	ARTICLE	IF	CITATIONS
1	Dose accumulation of daily adaptive plans to decide optimal plan adaptation strategy for head-and-neck patients treated with MR-Linac. <i>Medical Dosimetry</i> , 2022, 47, 103-109.	0.4	7
2	Brain stereotactic radiosurgery using MR-guided online adaptive planning for daily setup variation: An end-to-end test. <i>Journal of Applied Clinical Medical Physics</i> , 2022, 23, e13518.	0.8	7
3	Auto-contouring for Image-Guidance and Treatment Planning. , 2022, , 231-293.		3
4	Impact of geometric distortion on dose deviation for photon and proton treatment plans. <i>Journal of Applied Clinical Medical Physics</i> , 2022, 23, .	0.8	2
5	Clinical Implementation and Initial Experience With a 1.5 Tesla MR-Linac for MR-Guided Radiation Therapy for Gynecologic Cancer: An R-IDEAL Stage 1 and 2a First in Humans Feasibility Study of New Technology Implementation. <i>Practical Radiation Oncology</i> , 2022, 12, e296-e305.	1.1	2
6	Impact of intra-fractional motion on dose distributions in lung IMRT. <i>Journal of Radiotherapy in Practice</i> , 2021, 20, 12-16.	0.2	1
7	Generating High-Quality Lymph Node Clinical Target Volumes for Head and Neck Cancer Radiation Therapy Using a Fully Automated Deep Learning-Based Approach. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 109, 801-812.	0.4	49
8	Initial Feasibility and Clinical Implementation of Daily MR-Guided Adaptive Head and Neck Cancer Radiation Therapy on a 1.5T MR-Linac System: Prospective R-IDEAL 2a/2b Systematic Clinical Evaluation of Technical Innovation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 109, 1606-1618.	0.4	52
9	Online adaptive planning for prostate stereotactic body radiotherapy using a 1.5-Tesla magnetic resonance imaging-guided linear accelerator. <i>Physics and Imaging in Radiation Oncology</i> , 2021, 17, 20-24.	1.2	12
10	Radiomics feature robustness as measured using an MRI phantom. <i>Scientific Reports</i> , 2021, 11, 3973.	1.6	45
11	Training deep-learning segmentation models from severely limited data. <i>Medical Physics</i> , 2021, 48, 1697-1706.	1.6	10
12	Tissue-specific deformable image registration using a spatial-contextual filter. <i>Computerized Medical Imaging and Graphics</i> , 2021, 88, 101849.	3.5	3
13	Impact of slice thickness, pixel size, and CT dose on the performance of automatic contouring algorithms. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 168-174.	0.8	23
14	Machine QA for the Elekta Unity system: A Report from the Elekta MR-Linac consortium. <i>Medical Physics</i> , 2021, 48, e67-e85.	1.6	52
15	Our Experience Leading a Large Medical Physics Practice During the COVID-19 Pandemic. <i>Advances in Radiation Oncology</i> , 2021, 6, 100683.	0.6	4
16	Stability of MRI contrast agents in high-energy radiation of a 1.5T MR-Linac. <i>Radiotherapy and Oncology</i> , 2021, 161, 55-64.	0.3	12
17	Differences between planned and delivered dose for head and neck cancer, and their consequences for normal tissue complication probability and treatment adaptation. <i>Radiotherapy and Oncology</i> , 2020, 142, 100-106.	0.3	20
18	Development and application of an elastic net logistic regression model to investigate the impact of cardiac substructure dose on radiation-induced pericardial effusion in patients with NSCLC. <i>Acta Oncologica</i> , 2020, 59, 1193-1200.	0.8	6

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19	Head and neck cancer patient images for determining auto-segmentation accuracy in T2-weighted magnetic resonance imaging through expert manual segmentations. <i>Medical Physics</i> , 2020, 47, 2317-2322.	1.6	29
20	Anatomic change over the course of treatment for non-small cell lung cancer patients and its impact on intensity-modulated radiation therapy and passive-scattering proton therapy deliveries. <i>Radiation Oncology</i> , 2020, 15, 55.	1.2	16
21	CT images with expert manual contours of thoracic cancer for benchmarking auto-segmentation accuracy. <i>Medical Physics</i> , 2020, 47, 3250-3255.	1.6	15
22	Automatic registration of 2D MR cine images for swallowing motion estimation. <i>PLoS ONE</i> , 2020, 15, e0228652.	1.1	4
23	Evaluation of the accuracy of deformable image registration on MRI with a physical phantom. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 166-173.	0.8	13
24	Feasibility of spinal stereotactic body radiotherapy in Elekta Unity MR-Linac. <i>Journal of Radiosurgery and SBRT</i> , 2020, 7, 127-134.	0.2	1
25	Automatic detection of contouring errors using convolutional neural networks. <i>Medical Physics</i> , 2019, 46, 5086-5097.	1.6	72
26	Quantifying the accuracy of deformable image registration for cone-beam computed tomography with a physical phantom. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 92-100.	0.8	16
27	Automated treatment planning of postmastectomy radiotherapy. <i>Medical Physics</i> , 2019, 46, 3767-3775.	1.6	27
28	Advances in Auto-Segmentation. <i>Seminars in Radiation Oncology</i> , 2019, 29, 185-197.	1.0	252
29	Dosimetric impact of esophagus motion in single fraction spine stereotactic body radiotherapy. <i>Physics in Medicine and Biology</i> , 2019, 64, 115010.	1.6	4
30	Automatic detection of graticule isocenter and scale from kV and MV images. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 18-28.	0.8	2
31	Fully Automatic Treatment Planning for External-Beam Radiation Therapy of Locally Advanced Cervical Cancer: A Tool for Low-Resource Clinics. <i>Journal of Global Oncology</i> , 2019, 5, 1-9.	0.5	31
32	Technical Note: Density correction to improve CT number mapping in thoracic deformable image registration. <i>Medical Physics</i> , 2019, 46, 2330-2336.	1.6	4
33	Matching and Homogenizing Convolution Kernels for Quantitative Studies in Computed Tomography. <i>Investigative Radiology</i> , 2019, 54, 288-295.	3.5	19
34	Characterization of a new physical phantom for testing rigid and deformable image registration. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 145-153.	0.8	12
35	Potential for Improvements in Robustness and Optimality of Intensity-Modulated Proton Therapy for Lung Cancer with 4-Dimensional Robust Optimization. <i>Cancers</i> , 2019, 11, 35.	1.7	27
36	Prospective Comparison of Toxicity and Cosmetic Outcome After Accelerated Partial Breast Irradiation With Conformal External Beam Radiotherapy or Single-Entry Multilumen Intracavitary Brachytherapy. <i>Practical Radiation Oncology</i> , 2019, 9, e4-e13.	1.1	13

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37	Automatic segmentation of cardiac substructures from noncontrast CT images: accurate enough for dosimetric analysis?. <i>Acta Oncologica</i> , 2019, 58, 81-87.	0.8	18
38	Effect of tube current on computed tomography radiomic features. <i>Scientific Reports</i> , 2018, 8, 2354.	1.6	94
39	Guidelines and Experience Using Imaging Biomarker Explorer (IBEX) for Radiomics. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	19
40	Radiation Planning Assistant - A Streamlined, Fully Automated Radiotherapy Treatment Planning System. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	35
41	A methodology to investigate the impact of image distortions on the radiation dose when using magnetic resonance images for planning. <i>Physics in Medicine and Biology</i> , 2018, 63, 085005.	1.6	17
42	Deep Learning Algorithm for Auto-Delineation of High-Risk Oropharyngeal Clinical Target Volumes With Built-In Dice Similarity Coefficient Parameter Optimization Function. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 101, 468-478.	0.4	118
43	A predictive model for distinguishing radiation necrosis from tumour progression after gamma knife radiosurgery based on radiomic features from MR images. <i>European Radiology</i> , 2018, 28, 2255-2263.	2.3	121
44	Technical Note: Solving the "Chinese postman problem" for effective contour deformation. <i>Medical Physics</i> , 2018, 45, 767-772.	1.6	0
45	Retrospective Validation and Clinical Implementation of Automated Contouring of Organs at Risk in the Head and Neck: A Step Toward Automated Radiation Treatment Planning for Low- and Middle-Income Countries. <i>Journal of Global Oncology</i> , 2018, 4, 1-11.	0.5	34
46	Auto-delineation of oropharyngeal clinical target volumes using 3D convolutional neural networks. <i>Physics in Medicine and Biology</i> , 2018, 63, 215026.	1.6	51
47	A snapshot of medical physics practice patterns. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 306-315.	0.8	22
48	Lung tumor segmentation methods: Impact on the uncertainty of radiomics features for non-small cell lung cancer. <i>PLoS ONE</i> , 2018, 13, e0205003.	1.1	63
49	Synthetic head and neck and phantom images for determining deformable image registration accuracy in magnetic resonance imaging. <i>Medical Physics</i> , 2018, 45, 4315-4321.	1.6	4
50	Autosegmentation for thoracic radiation treatment planning: A grand challenge at AAPM 2017. <i>Medical Physics</i> , 2018, 45, 4568-4581.	1.6	169
51	Delta-radiomics features for the prediction of patient outcomes in non-small cell lung cancer. <i>Scientific Reports</i> , 2017, 7, 588.	1.6	254
52	Accuracy of deformable image registration on magnetic resonance images in digital and physical phantoms. <i>Medical Physics</i> , 2017, 44, 5153-5161.	1.6	22
53	The influence of non-rigid anatomy and patient positioning on endoscopy-CT image registration in the head and neck. <i>Medical Physics</i> , 2017, 44, 4159-4168.	1.6	3
54	Cost-effective immobilization for whole brain radiation therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 116-122.	0.8	6

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55	The Rise of Radiomics and Implications for Oncologic Management. Journal of the National Cancer Institute, 2017, 109, .	3.0	104
56	Cardiac atlas development and validation for automatic segmentation of cardiac substructures. Radiotherapy and Oncology, 2017, 122, 66-71.	0.3	76
57	Submillimeter alignment of more than three contiguous vertebrae in spinal SRS / SBRT with 6° couch. Journal of Applied Clinical Medical Physics, 2017, 18, 225-236.	0.8	8
58	Dosimetric comparison to the heart and cardiac substructure in a large cohort of esophageal cancer patients treated with proton beam therapy or Intensity-modulated radiation therapy. Radiotherapy and Oncology, 2017, 125, 48-54.	0.3	69
59	A Novel Methodology using CT Imaging Biomarkers to Quantify Radiation Sensitivity in the Esophagus with Application to Clinical Trials. Scientific Reports, 2017, 7, 6034.	1.6	15
60	Differences in Normal Tissue Response in the Esophagus Between Proton and Photon Radiation Therapy for Non-Small Cell Lung Cancer Using InVivo Imaging Biomarkers. International Journal of Radiation Oncology Biology Physics, 2017, 99, 1013-1020.	0.4	5
61	Atlas ranking and selection for automatic segmentation of the esophagus from CT scans. Physics in Medicine and Biology, 2017, 62, 9140-9158.	1.6	28
62	The feasibility of endoscopy-CT image registration in the head and neck without prospective endoscope tracking. PLoS ONE, 2017, 12, e0177886.	1.1	4
63	Reproducibility of patient setup in the seated treatment position: A novel treatment chair design. Journal of Applied Clinical Medical Physics, 2017, 18, 223-229.	0.8	23
64	Harmonizing the pixel size in retrospective computed tomography radiomics studies. PLoS ONE, 2017, 12, e0178524.	1.1	127
65	Combining Radiation Therapy with Immune Checkpoint Blockade for Central Nervous System Malignancies. Frontiers in Oncology, 2016, 6, 212.	1.3	35
66	Learning anatomy changes from patient populations to create artificial CT images for voxel-level validation of deformable image registration. Journal of Applied Clinical Medical Physics, 2016, 17, 246-258.	0.8	14
67	Impact of heart and lung dose on early survival in patients with non-small cell lung cancer treated with chemoradiation. Radiotherapy and Oncology, 2016, 119, 495-500.	0.3	75
68	18F-Fluorodeoxyglucose Positron Emission Tomography Can Quantify and Predict Esophageal Injury During Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2016, 96, 670-678.	0.4	17
69	Spatial Precision in Magnetic Resonance Imaging—Guided Radiation Therapy: The Role of Geometric Distortion. International Journal of Radiation Oncology Biology Physics, 2016, 95, 1304-1316.	0.4	119
70	Objectively Quantifying Radiation Esophagitis With Novel Computed Tomography-Based Metrics. International Journal of Radiation Oncology Biology Physics, 2016, 94, 385-393.	0.4	15
71	Uncertainty analysis of quantitative imaging features extracted from contrast-enhanced CT in lung tumors. Computerized Medical Imaging and Graphics, 2016, 48, 1-8.	3.5	36
72	NSCLC tumor shrinkage prediction using quantitative image features. Computerized Medical Imaging and Graphics, 2016, 49, 29-36.	3.5	19

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73	Reirradiation of Recurrent Pediatric Brain Tumors after Initial Proton Therapy. <i>International Journal of Particle Therapy</i> , 2016, 3, 1-12.	0.9	5
74	Computational resources for radiomics. <i>Translational Cancer Research</i> , 2016, 5, 340-348.	0.4	56
75	Impact of image preprocessing on the volume dependence and prognostic potential of radiomics features in non-small cell lung cancer. <i>Translational Cancer Research</i> , 2016, 5, 349-363.	0.4	87
76	Prospective evaluation of target and spinal cord motion and dosimetric changes with respiration in spinal stereotactic body radiation therapy utilizing 4-D CT. <i>Journal of Radiosurgery and SBRT</i> , 2016, 4, 191-201.	0.2	3
77	A multimodality segmentation framework for automatic target delineation in head and neck radiotherapy. <i>Medical Physics</i> , 2015, 42, 5310-5320.	1.6	43
78	Can radiomics features be reproducibly measured from CBCT images for patients with non-small cell lung cancer?. <i>Medical Physics</i> , 2015, 42, 6784-6797.	1.6	142
79	Measuring Computed Tomography Scanner Variability of Radiomics Features. <i>Investigative Radiology</i> , 2015, 50, 757-765.	3.5	519
80	Auto-segmentation of the brachial plexus assessed with TaCTICS – A software platform for rapid multiple-metric quantitative evaluation of contours. <i>Acta Oncologica</i> , 2015, 54, 562-566.	0.8	4
81	Prospective observer and software-based assessment of magnetic resonance imaging quality in head and neck cancer: Should standard positioning and immobilization be required for radiation therapy applications?. <i>Practical Radiation Oncology</i> , 2015, 5, e299-e308.	1.1	31
82	Digital reconstruction of high-quality daily 4D cone-beam CT images using prior knowledge of anatomy and respiratory motion. <i>Computerized Medical Imaging and Graphics</i> , 2015, 40, 30-38.	3.5	7
83	<sc>ibex</sc>: An open infrastructure software platform to facilitate collaborative work in radiomics. <i>Medical Physics</i> , 2015, 42, 1341-1353.	1.6	274
84	Quality Assurance Assessment of Diagnostic and Radiation Therapy – Simulation CT Image Registration for Head and Neck Radiation Therapy: Anatomic Region of Interest – based Comparison of Rigid and Deformable Algorithms. <i>Radiology</i> , 2015, 274, 752-763.	3.6	58
85	Preliminary investigation into sources of uncertainty in quantitative imaging features. <i>Computerized Medical Imaging and Graphics</i> , 2015, 44, 54-61.	3.5	77
86	3D-Printed Small-Animal Immobilizer for Use in Preclinical Radiotherapy. <i>Journal of the American Association for Laboratory Animal Science</i> , 2015, 54, 545-8.	0.6	10
87	Motion of the Esophagus Due to Cardiac Motion. <i>PLoS ONE</i> , 2014, 9, e89126.	1.1	18
88	Upright cone beam CT imaging using the onboard imager. <i>Medical Physics</i> , 2014, 41, 061906.	1.6	9
89	Vision 20/20: Perspectives on automated image segmentation for radiotherapy. <i>Medical Physics</i> , 2014, 41, 050902.	1.6	262
90	Auto-segmentation of low-risk clinical target volume for head and neck radiation therapy. <i>Practical Radiation Oncology</i> , 2014, 4, e31-e37.	1.1	28

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91	Advantages of simulating thoracic cancer patients in an upright position. <i>Practical Radiation Oncology</i> , 2014, 4, e53-e58.	1.1	35
92	Statistical Modeling Approach to Quantitative Analysis of Interobserver Variability in Breast Contouring. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 89, 214-221.	0.4	22
93	Modeling respiratory motion for reducing motion artifacts in 4D CT images. <i>Medical Physics</i> , 2013, 40, 041716.	1.6	47
94	Automatic contouring of brachial plexus using a multi-atlas approach for lung cancer radiation therapy. <i>Practical Radiation Oncology</i> , 2013, 3, e139-e147.	1.1	37
95	MO-D-108-09: Perturbation of Tissue Density Is An Important Metric to Be Considered When Planning for Respiratory Motion Management for Lung Proton Therapy. <i>Medical Physics</i> , 2013, 40, 397-398.	1.6	0
96	SU-E-I-58: Understanding Uncertainties in Quantitative Image Features Extracted From Contrast-Enhanced CT Images. <i>Medical Physics</i> , 2013, 40, 138-138.	1.6	0
97	<i>Medical Physics</i> , 2012, 39, 5136-5144.	1.6	20
98	Dose Constraints to Prevent Radiation-Induced Brachial Plexopathy in Patients Treated for Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 82, e391-e398.	0.4	67
99	A statistical modeling approach for evaluating auto-segmentation methods for image-guided radiotherapy. <i>Computerized Medical Imaging and Graphics</i> , 2012, 36, 492-500.	3.5	13
100	TH-E-218-05: Prediction of Respiratory Motion from Single Daily 3D Image Using Prior Model of Motion and Anatomic Variations. <i>Medical Physics</i> , 2012, 39, 4018-4018.	1.6	0
101	A robust hybrid method for nonrigid image registration. <i>Pattern Recognition</i> , 2011, 44, 764-776.	5.1	23
102	The thin plate spline robust point matching (TPS-RPM) algorithm: A revisit. <i>Pattern Recognition Letters</i> , 2011, 32, 910-918.	2.6	43
103	SU-E-J-99: Multi-Atlas Based Auto-Segmentation of Low-Risk Clinical Target Volume (CTV) for Head-and-Neck Radiotherapy. <i>Medical Physics</i> , 2011, 38, 3465-3465.	1.6	0
104	DTI-€DROID: Diffusion tensor imaging-€deformable registration using orientation and intensity descriptors. <i>International Journal of Imaging Systems and Technology</i> , 2010, 20, 99-107.	2.7	13
105	Spatial normalization of diffusion tensor images based on anisotropic segmentation. , 2008, , .		7
106	Diffusion Tensor Image Registration Using Tensor Geometry and Orientation Features. <i>Lecture Notes in Computer Science</i> , 2008, 11, 905-913.	1.0	65
107	A Region-Based Image Fusion Method Using the Expectation-Maximization Algorithm. , 2006, , .		15
108	Image Fusion Using the Expectation-Maximization Algorithm and a Gaussian Mixture Model. , 2003, , 81-95.		6

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109	Non-rigid Image Registration Using Geometric Features and Local Salient Region Features. , 0, , .		5