Jianrong Dai

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Automatic segmentation of the clinical target volume and organs at risk in the planning <scp>CT</scp> for rectal cancer using deep dilated convolutional neural networks. Medical Physics, 2017, 44, 6377-6389. | 3.0 | 241 |
| 2 | Deep Deconvolutional Neural Network for Target Segmentation of Nasopharyngeal Cancer in Planning Computed Tomography Images. Frontiers in Oncology, 2017, 7, 315. | 2.8 | 157 |
| 3 | A feasibility study on an automated method to generate patientâ€specific dose distributions for radiotherapy using deep learning. Medical Physics, 2019, 46, 56-64. | 3.0 | 124 |
| 4 | Fully automatic and robust segmentation of the clinical target volume for radiotherapy of breast cancer using big data and deep learning. Physica Medica, 2018, 50, 13-19. | 0.7 | 121 |
| 5 | Dosiomics: Extracting 3D Spatial Features From Dose Distribution to Predict Incidence of Radiation Pneumonitis. Frontiers in Oncology, 2019, 9, 269. | 2.8 | 99 |
| 6 | A deep learning method for prediction of threeâ€dimensional dose distribution of helical tomotherapy. Medical Physics, 2019, 46, 1972-1983. | 3.0 | 72 |
| 7 | Prediction of Radiation Pneumonitis With Dose Distribution: A Convolutional Neural Network (CNN) Based Model. Frontiers in Oncology, 2019, 9, 1500. | 2.8 | 40 |
| 8 | Deep Learning Improved Clinical Target Volume Contouring Quality and Efficiency for Postoperative Radiation Therapy in Non-small Cell Lung Cancer. Frontiers in Oncology, 2019, 9, 1192. | 2.8 | 35 |
| 9 | CNN-Based Quality Assurance for Automatic Segmentation of Breast Cancer in Radiotherapy. Frontiers in Oncology, 2020, 10, 524. | 2.8 | 35 |
| 10 | Long-Term Survival and Late Toxicity Associated With Pelvic Intensity Modulated Radiation Therapy (IMRT) for Cervical Cancer Involving CT-Based Positive Lymph Nodes. Frontiers in Oncology, 2019, 9, 520. | 2.8 | 19 |
| 11 | A new homogeneity index definition for evaluation of radiotherapy plans. Journal of Applied Clinical Medical Physics, 2019, 20, 50-56. | 1.9 | 18 |
| 12 | Personalized setting of plan parameters using feasibility dose volume histogram for autoâ€planning in Pinnacle system. Journal of Applied Clinical Medical Physics, 2020, 21, 119-127. | 1.9 | 18 |
| 13 | Evaluation of Automatic Segmentation Model With Dosimetric Metrics for Radiotherapy of Esophageal Cancer. Frontiers in Oncology, 2020, 10, 564737. | 2.8 | 17 |
| 14 | A deep learning method for producing ventilation images from 4DCT: First comparison with technegas SPECT ventilation. Medical Physics, 2020, 47, 1249-1257. | 3.0 | 16 |
| 15 | Ultrasound-guided intraoperative electron beam radiation therapy: A phantom study. Physica Medica, 2020, 78, 1-7. | 0.7 | 16 |
| 16 | Predicting machine's performance record using the stacked long shortâ€ŧerm memory (LSTM) neural networks. Journal of Applied Clinical Medical Physics, 2022, 23, e13558. | 1.9 | 16 |
| 17 | A study of nonuniform CTV to PTV margin expansion incorporating both rotational and translational uncertainties. Journal of Applied Clinical Medical Physics, 2019, 20, 78-86. | 1.9 | 15 |
| 18 | Locoregional irradiation including internal mammary nodal region for left-sided breast cancer after breast conserving surgery: Dosimetric evaluation of 4 techniques. Medical Dosimetry, 2019, 44, e13-e18. | 0.9 | 15 |

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| 19 | A deep learning model to predict dose–volume histograms of organs at risk in radiotherapy treatment plans. Medical Physics, 2020, 47, 5467-5481. | 3.0 | 15 |
| 20 | Dosiomics-based prediction of radiation-induced hypothyroidism in nasopharyngeal carcinoma patients. Physica Medica, 2021, 89, 219-225. | 0.7 | 15 |
| 21 | Dual-energy imaging method to improve the image quality and the accuracy of dose calculation for cone-beam computed tomography. Physica Medica, 2017, 36, 110-118. | 0.7 | 13 |
| 22 | A two-step method to improve image quality of CBCT with phantom-based supervised and patient-based unsupervised learning strategies. Physics in Medicine and Biology, 2022, 67, 084001. | 3.0 | 11 |
| 23 | Impact of Magnetic Field on Dose Distribution in MR-Guided Radiotherapy of Head and Neck Cancer. Frontiers in Oncology, 2020, 10, 1739. | 2.8 | 10 |
| 24 | Accurate method for evaluating the duration of the entire radiotherapy process. Journal of Applied Clinical Medical Physics, 2020, 21, 252-258. | 1.9 | 10 |
| 25 | Automatic segmentation of three clinical target volumes in radiotherapy using lifelong learning. Radiotherapy and Oncology, 2021, 157, 1-7. | 0.6 | 10 |
| 26 | DVHnet: A deep learningâ€based prediction of patientâ€specific dose volume histograms for radiotherapy planning. Medical Physics, 2021, 48, 2705-2713. | 3.0 | 9 |
| 27 | A deep-learning method for generating synthetic kV-CT and improving tumor segmentation for helical tomotherapy of nasopharyngeal carcinoma. Physics in Medicine and Biology, 2021, 66, 224001. | 3.0 | 9 |
| 28 | A feasible study on using multiplexed sensitivity-encoding to reduce geometric distortion in diffusion-weighted echo planar imaging. Magnetic Resonance Imaging, 2018, 54, 153-159. | 1.8 | 8 |
| 29 | Selection of prescription isodose line for brain metastases treated with volumetric modulated arc radiotherapy. Journal of Applied Clinical Medical Physics, 2019, 20, 63-69. | 1.9 | 8 |
| 30 | Real-Time Respiratory Tumor Motion Prediction Based on a Temporal Convolutional Neural Network: Prediction Model Development Study. Journal of Medical Internet Research, 2021, 23, e27235. | 4.3 | 8 |
| 31 | Evaluation of MLC leaf transmission on IMRT treatment plan quality of patients with advanced lung cancer. Medical Dosimetry, 2018, 43, 313-318. | 0.9 | 7 |
| 32 | Performance of a multileaf collimator system for a 1.5T MRâ€linac. Medical Physics, 2021, 48, 546-555. | 3.0 | 7 |
| 33 | Improving deformable image registration with point metric and masking technique for postoperative breast cancer radiotherapy. Quantitative Imaging in Medicine and Surgery, 2021, 11, 1196-1208. | 2.0 | 7 |
| 34 | MRI-Only Radiotherapy Planning for Nasopharyngeal Carcinoma Using Deep Learning. Frontiers in Oncology, 2021, 11, 713617. | 2.8 | 7 |
| 35 | Managing a radiotherapy center safely and efficiently using risk-adaptive strategies during coronavirus disease pandemic: Experience from national cancer center of China. Radiotherapy and Oncology, 2020, 148, 243-244. | 0.6 | 6 |
| 36 | A practical method for predicting patientâ€specific collision in radiotherapy. Journal of Applied Clinical Medical Physics, 2020, 21, 65-72. | 1.9 | 6 |

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|----|---|-----|-----------|
| 37 | Treatment planning of volumetric modulated arc therapy and positioning optimization for hippocampalâ€avoidance prophylactic cranial irradiation. Journal of Applied Clinical Medical Physics, 2021, 22, 15-23. | 1.9 | 6 |
| 38 | Non-coplanar volumetric modulated arc therapy for locoregional radiotherapy of left-sided breast cancer including internal mammary nodes. Radiology and Oncology, 2021, 55, 499-507. | 1.7 | 6 |
| 39 | Reducing dose to the lungs through loosing target dose homogeneity requirement for radiotherapy of non small cell lung cancer. Journal of Applied Clinical Medical Physics, 2017, 18, 169-176. | 1.9 | 5 |
| 40 | A Special Report on 2019 International Planning Competition and a Comprehensive Analysis of Its Results. Frontiers in Oncology, 2020, 10, 571644. | 2.8 | 5 |
| 41 | Prior information guided auto-contouring of breast gland for deformable image registration in postoperative breast cancer radiotherapy. Quantitative Imaging in Medicine and Surgery, 2021, 11, 4721-4730. | 2.0 | 5 |
| 42 | A feasible method to evaluate deformable image registration with deep learning–based segmentation. Physica Medica, 2022, 95, 50-56. | 0.7 | 5 |
| 43 | Personalized Modeling to Improve Pseudo–Computed Tomography Images for Magnetic Resonance Imaging–Guided Adaptive Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2022, 113, 885-892. | 0.8 | 5 |
| 44 | Predicting radiation pneumonitis with fuzzy clustering neural network using 4DCT ventilation image based dosimetric parameters. Quantitative Imaging in Medicine and Surgery, 2021, 11, 4731-4741. | 2.0 | 4 |
| 45 | A novel angular dependency model for MatriXX response and its application to true composite dose verification for IMRT plans. Journal of Applied Clinical Medical Physics, 2021, 22, 120-135. | 1.9 | 4 |
| 46 | Determining leaf trajectories for dynamic multileaf collimators with consideration of marker visibility: an algorithm study. Journal of Radiation Research, 2014, 55, 976-987. | 1.6 | 3 |
| 47 | Quantitative analysis of image quality for acceptance and commissioning of an <scp>MRI</scp> simulator with a semiautomatic method. Journal of Applied Clinical Medical Physics, 2018, 19, 326-335. | 1.9 | 3 |
| 48 | A comprehensive evaluation of angular range and separation on image quality, image registration, and imaging dose for cone beam computed tomography in radiotherapy. Medical Dosimetry, 2019, 44, 67-73. | 0.9 | 3 |
| 49 | Influence of maximum MLC leaf speed on the quality of volumetric modulated arc therapy plans. Journal of Applied Clinical Medical Physics, 2020, 21, 37-47. | 1.9 | 3 |
| 50 | A patient risk model to determine the optimal output constancy check frequency for a radiotherapy machine. Physica Medica, 2021, 84, 192-197. | 0.7 | 3 |
| 51 | Deep learning improves image quality and radiomics reproducibility for high-speed four-dimensional computed tomography reconstruction. Radiotherapy and Oncology, 2022, , . | 0.6 | 3 |
| 52 | Application of piecewise VMAT technique to whole-brain radiotherapy with simultaneous integrated boost for multiple metastases. Radiation Oncology, 2022, 17, 86. | 2.7 | 3 |
| 53 | Influence of tumor location on the intensity-modulated radiation therapy plan of helical tomotherapy. Medical Dosimetry, 2017, 42, 334-340. | 0.9 | 2 |
| 54 | Dosimetric impact of hysteresis on lung cancer tomotherapy: A moving phantom study. Physica Medica, 2018, 49, 40-46. | 0.7 | 2 |

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| 55 | Exploring correlation information for image compression of four-dimensional computed tomography. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1270-1277. | 2.0 | 2 |
| 56 | Dosimetric comparison of coplanar and noncoplanar beam arrangements for radiotherapy of patients with lung cancer: A metaâ€analysis. Journal of Applied Clinical Medical Physics, 2021, 22, 34-43. | 1.9 | 2 |
| 57 | Longitudinal Grouping of Target Volumes for Volumetric-Modulated Arc Therapy of Multiple Brain Metastases. Frontiers in Oncology, 2021, 11, 578934. | 2.8 | 2 |
| 58 | A Projection Quality-Driven Tube Current Modulation Method in Cone-Beam CT for IGRT: Proof of Concept. Technology in Cancer Research and Treatment, 2017, 16, 1179-1186. | 1.9 | 1 |
| 59 | A survey on the current clinical application and practice of helical tomotherapy in mainland China. Journal of Radiotherapy in Practice, 2019, 18, 375-382. | 0.5 | 1 |
| 60 | Comparison of 2 methods for prediction of liver dosimetric indices in hepatocellular cancer IMRT planning. Medical Dosimetry, 2019, 44, e80-e85. | 0.9 | 1 |
| 61 | Sparing Organs at Risk with Simultaneous Integrated Boost Volumetric Modulated Arc Therapy for Locally Advanced Non-Small Cell Lung Cancer: An Automatic Treatment Planning Study. Cancer Management and Research, 2020, Volume 12, 9643-9653. | 1.9 | 1 |
| 62 | A longitudinal evaluation of improvements in treatment plan quality for lung cancer with volumetric modulated arc therapy. Journal of Applied Clinical Medical Physics, 2020, 21, 33-43. | 1.9 | 1 |
| 63 | A new index for evaluating the fit of dose distribution to target volume: Dose distribution fix index. Medical Dosimetry, 2021, 46, 347-355. | 0.9 | 1 |
| 64 | A twoâ€layer cylinder phantom developed for filmâ€based isocenter verification of radiotherapy machine. Medical Physics, 2021, 48, 7725-7734. | 3.0 | 1 |
| 65 | Applying pytorch toolkit to plan optimization for circular cone based robotic radiotherapy. Radiation Oncology, 2022, 17, 82. | 2.7 | 1 |
| 66 | Methodology for Registration of Shrinkage Tumors in Head-and-Neck CT Studies. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-9. | 1.3 | 0 |
| 67 | Selecting noncoplanar beam directions in a patient coordinate system for radiotherapy planning. Medical Dosimetry, 2019, 44, 279-283. | 0.9 | 0 |
| 68 | Four-Dimensional Cone-Beam Computed Tomography Image Compression Using Video Encoder for Radiotherapy. Journal of Digital Imaging, 2020, 33, 1292-1300. | 2.9 | 0 |