Stanford

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Bio

ACADEMIC APPOINTMENTS
• Clinical Professor, Radiation Oncology - Radiation Physics

Publications

PUBLICATIONS
• Incorporating imaging information from deep neural network layers into image guided radiation therapy (IGRT). Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology
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• Dose Distribution Prediction in Isodose Feature-Preserving Voxelization Domain Using Deep Convolutional Neural Network. Medical physics
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• Incorporating dosimetric features into the prediction of 3D VMAT dose distributions using deep convolutional neural network. Physics in medicine and biology
  Ma, M., Kovalchuk, N., Buyyounouski, M. K., Xing, L., Yang, Y.
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• Dosimetric features-driven machine learning model for DVH prediction in VMAT treatment planning MEDICAL PHYSICS
  Ma, M., Kovalchuk, N., Buyyounouski, M. K., Xing, L., Yang, Y.
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• Markerless pancreatic tumor target localization enabled by deep learning. International journal of radiation oncology, biology, physics
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• Automatic marker-free target positioning and tracking for image-guided radiotherapy and interventions
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• Optimizing efficiency and safety in external beam radiotherapy using automated plan check (APC) tool and six sigma methodology. Journal of applied clinical medical physics
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• Factor 10 Expedience of Monthly Linac Quality Assurance via an Ion Chamber Array and Automation Scripts. Technology in cancer research & treatment
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• Dosimetric Features-Driven Machine Learning Model for DVHs Prediction in VMAT Treatment Planning. Medical physics
  Ma, M., Kovalchuk, N., Buyyounouski, M. K., Xing, L., Yang, Y.
  2018
• Feasibility of optimizing intensity-modulated radiation therapy plans based on measured mucosal dose adjacent to dental fillings and toxicity outcomes. *Journal of Applied Clinical Medical Physics*

Seol, S., Aggarwal, S., von Eyben, R., Wang, Z., Chan, C., Say, C., Xing, L., Hara, W., Yang, Y., Quynh Thu Le

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• A unified material decomposition framework for quantitative dual- and triple-energy CT imaging. *Medical Physics*

Zhao, W., Vernekohl, D., Han, F., Han, B., Peng, H., Yang, Y., Xing, L., Min, J. K.

2018

• 4D VMAT planning and verification technique for dynamic tracking using a direct aperture deformation (DAD) method. *Journal of Applied Clinical Medical Physics*

Zhang, Y., Yang, Y., Fu, W., Li, X., Li, T., Heron, D. E., Huq, M. S.

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• Automating quality assurance of digital linear accelerators using a radioluminescent phosphor coated phantom and optical imaging. *Physics in medicine and biology*

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