

Stanford

Yong Yang

Clinical Professor, Radiation Oncology - Radiation Physics

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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2019
- **Incorporating dosimetric features into the prediction of 3D VMAT dose distributions using deep convolutional neural network.** *Physics in medicine and biology*
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2019
- **Dosimetric features-driven machine learning model for DVH prediction in VMAT treatment planning** *MEDICAL PHYSICS*
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- **Markerless pancreatic tumor target localization enabled by deep learning.** *International journal of radiation oncology, biology, physics*
Zhao, W., Shen, L., Han, B., Yang, Y., Cheng, K., Toesca, D. A., Koong, A. C., Chang, D. T., Xing, L.
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- **Automatic marker-free target positioning and tracking for image-guided radiotherapy and interventions**
Zhao, W., Shen, L., Wu, Y., Han, B., Yang, Y., Xing, L., Fei, B., Linte, C. A.
SPIE-INT SOC OPTICAL ENGINEERING.2019
- **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*
Skinner, L. B., Yang, Y., Hsu, A., Xing, L., Yu, A. S., Niedermayr, T.
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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
2018; 19 (5): 444–52
- **Cumulative dose of radiation therapy of hepatocellular carcinoma patients and its deterministic relation to radiation-induced liver disease** *MEDICAL DOSIMETRY*
Huang, P., Yu, G., Kapp, D. S., Bian, X., Ma, C., Li, H., Chen, J., Liang, Y., Zhang, Y., Qin, S., Xie, Y., Yang, Y., Yin, et al
2018; 43 (3): 258–66
- **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*
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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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- **Evaluation of on-board kV cone beam CT (CBCT)-based dose calculation** *PHYSICS IN MEDICINE AND BIOLOGY*
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Yang, Y., Xing, L.
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- **Quantitative measurement of MLC leaf displacements using an electronic portal image device** *45th Annual Meeting of the American-Society-for-Therapeutic-Radiology-and-Oncology (ASTRO)*
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- **Incorporating leaf transmission and head scatter corrections into step-and-shoot leaf sequences for IMRT** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
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- **Using the volumetric effect of a finite-sized detector for routine quality assurance of multileaf collimator leaf positioning** *MEDICAL PHYSICS*
Yang, Y., Xing, L.
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- **A three-source model for the calculation of head scatter factors** *MEDICAL PHYSICS*
Yang, Y., Xing, L., Boyer, A. L., Song, Y. X., Hu, Y. M.
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