Bin Han
Clinical Associate Professor, Radiation Oncology - Radiation Physics

Bio

ACADEMIC APPOINTMENTS
• Clinical Associate Professor, Radiation Oncology - Radiation Physics

Publications

PUBLICATIONS
• Tensor framelet based iterative image reconstruction algorithm for low-dose multislice helical CT. *PloS one*
  Nam, H., Guo, M., Yu, H., Lee, K., Li, R., Han, B., Xing, L., Lee, R., Gao, H.
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• Feasibility of Image Registration for Ultrasound-Guided Prostate Radiotherapy Based on Similarity Measurement by a Convolutional Neural Network. *Technology in cancer research & treatment*
  Zhu, N., Najafi, M., Han, B., Hancock, S., Hristov, D.
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• Prostate Cancer Classification with Multi-parametric MRI Transfer Learning Model. *Medical physics*
  Yuan, Y., Qin, W., Buuyounouski, M., Ibragimov, B., Hancock, S., Han, B., Xing, L.
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  Han, B., Najafi, M., Cooper, D. T., Lachaine, M., von Eyben, R., Hancock, S., Hristov, D.
  2018; 13 (1): 151

• 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

• Pixel response-based EPID dosimetry for patient specific QA *JOURNAL OF APPLIED CLINICAL MEDICAL PHYSICS*
  Han, B., Ding, A., Lu, M., Xing, L.
  2017; 18 (1): 9-17

• A depth-sensing technique on 3D-printed compensator for total body irradiation patient measurement and treatment planning. *Medical physics*
  Lee, M., Han, B., Jenkins, C., Xing, L., Suh, T.
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• Development of an accurate EPID-based output measurement and dosimetric verification tool for electron beam therapy. *Medical physics*
  Ding, A., Xing, L., Han, B.
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• Clinical implementation of intrafraction cone beam computed tomography imaging during lung tumor stereotactic ablative radiation therapy. *International journal of radiation oncology, biology, physics*
  Li, R., Han, B., Meng, B., Maxim, P. G., Xing, L., Koong, A. C., Diehn, M., Loo, B. W.
  2013; 87 (5): 917-923
Clinical implementation of intrafraction cone beam computed tomography imaging during lung tumor stereotactic ablative radiation therapy. *International journal of radiation oncology, biology, physics*
Li, R., Han, B., Meng, B., Maxim, P. G., Xing, L., Koong, A. C., Diehn, M., Loo, B. W.
2013; 87 (5): 917-923

Cone beam CT imaging with limited angle of projections and prior knowledge for volumetric verification of non-coplanar beam radiation therapy: a proof of concept study. *Physics in medicine and biology*
Meng, B., Xing, L., Han, B., Koong, A., Chang, D., Cheng, J., Li, R.
2013; 58 (21): 7777-7789

X-ray acoustic computed tomography with pulsed x-ray beam from a medical linear accelerator *MEDICAL PHYSICS*
Xiang, L., Han, B., Carpenter, C., Pratx, G., Kuang, Y., Xing, L.
2013; 40 (1)

X-ray induced photoacoustic tomography *Conference on Photons Plus Ultrasound - Imaging and Sensing*
Xiang, L., Han, B., Carpenter, C., Pratx, G., Kuang, Y., Xing, L.
SPIE-INT SOC OPTICAL ENGINEERING 2013

Fidelity of dose delivery at high dose rate of volumetric modulated arc therapy in a truebeam linac with flattening filter free beams. *Journal of medical physics / Association of Medical Physicists of India*
Kalantzis, G., Qian, J., Han, B., Luxton, G.
2012; 37 (4): 193-199

Evaluation of the geometric accuracy of surrogate-based gated VMAT using intrafraction kilovoltage x-ray images *MEDICAL PHYSICS*
Li, R., Mok, E., Han, B., Koong, A., Xing, L.
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