Stanford



Adam Johansson

Clinical Instructor, Radiation Oncology - Radiation Physics

Bio

ACADEMIC APPOINTMENTS

- Clinical Instructor, Radiation Oncology - Radiation Physics

Publications

PUBLICATIONS

- **Decision support for daily adaptive prostate radiotherapy**
  Tilly, D., Fransson, S., Lundmark, M., Johansson, A., Isacsson, U., Radu, C., Flejmen, A. A. K., Kyriakogiannaki, A., Tilly, N.
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- **Vendor-independent validation of the MR-to-MV isocentre shift at two MRI-linacs**
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- **Volumetric MRI with sparse sampling for MR-guided 3D motion tracking via sparse prior-augmented implicit neural representation learning.** *Medical physics*
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- **Real Time Volumetric MRI for 3D Motion Tracking via Geometry-Informed Deep Learning.** *Medical physics*
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- **Volumetric prediction of breathing and slow drifting motion in the abdomen using radial MRI and multi-temporal resolution modeling.** *Physics in medicine and biology*
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- **Gastrointestinal 4D MRI with respiratory motion correction.** *Medical physics*
  Johansson, A., Balter, J. M., Cao, Y.
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- **Modeling intra-fractional abdominal configuration changes using breathing motion-corrected radial MRI** *PHYSICS IN MEDICINE AND BIOLOGY*
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- **Abdominal synthetic CT generation from MR Dixon images using a U-net trained with 'semi-synthetic' CT data** *PHYSICS IN MEDICINE AND BIOLOGY*
  Liu, L., Johansson, A., Cao, Y., Dow, J., Lawrence, T. S., Balter, J. M.
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- **Abdominal DCE-MRI reconstruction with deformable motion correction for liver perfusion quantification.** *Medical physics*
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- **Quantification of liver function by linearization of a two-compartment model of gadoxetic acid uptake using dynamic contrast-enhanced magnetic resonance imaging.** *NMR in biomedicine*
  Simeth, J., Johansson, A., Owen, D., Cuneo, K., Mierzwa, M., Feng, M., Lawrence, T. S., Cao, Y.
  2018; 31 (6): e3913

- **Rigid-body motion correction of the liver in image reconstruction for golden-angle stack-of-stars DCE MRI.** *Magnetic resonance in medicine*
  Johansson, A., Balter, J., Cao, Y.
  2018; 79 (3): 1345-1353

- **Modeling of Normal Tissue Complications Using Imaging and Biomarkers After Radiation Therapy for Hepatocellular Carcinoma.** *International journal of radiation oncology, biology, physics*
  El Naqa, I., Johansson, A., Owen, D., Cuneo, K., Cao, Y., Matuszak, M., Bazzi, L., Lawrence, T. S., Ten Haken, R. K.
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- **ACCELERATED HIGH B-VALUE DIFFUSION-WEIGHTED MR IMAGING VIA PHASE-CONSTRAINED LOW-RANK TENSOR MODEL**
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- **Utility of 4DMRI for Liver Radiation Planning**
  Owen, D., Vineberg, K. A., Li, P., Cao, Y., Johansson, A., Cuneo, K. C., Lawrence, T. S., Balter, J.
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  Garpebring, A., Brynolfsson, P., Yu, J., Wirestam, R., Johansson, A., Asklund, T., Karlsson, M.
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