



Adam Johansson

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Bio

ACADEMIC APPOINTMENTS

- Clinical Instructor, Radiation Oncology - Radiation Physics

Publications

PUBLICATIONS

- **Decision support for daily adaptive prostate radiotherapy**
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ELSEVIER IRELAND LTD.2024: S4773-S4776
- **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*
Liu, L., Shen, L., Johansson, A., Balter, J. M., Cao, Y., Chang, D., Xing, L.
2022
- **Volumetric prediction of breathing and slow drifting motion in the abdomen using radial MRI and multi-temporal resolution modeling.** *Physics in medicine and biology*
Liu, L., Johansson, A., Cao, Y., Lawrence, T. S., Balter, J. M.
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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*
Liu, L., Johansson, A., Cao, Y., Kashani, R., Lawrence, T. S., Balter, J. M.
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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 gadoteric 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.
2018; 100 (2): 335-343
- **ACCELERATED HIGH B-VALUE DIFFUSION-WEIGHTED MR IMAGING VIA PHASE-CONSTRAINED LOW-RANK TENSOR MODEL**
Liu, L., Johansson, A., Balter, J. M., Cao, Y., Fessler, J. A., IEEE
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- **Utility of 4DMRI for Liver Radiation Planning**
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- **Effect of gradient field nonlinearity distortions in MRI-based attenuation maps for PET reconstruction.** *Physica medica : PM : an international journal devoted to the applications of physics to medicine and biology : official journal of the Italian Association of Biomedical Physics (AIFB)*
Lundman, J. A., Johansson, A., Olofsson, J., Axelsson, J., Larsson, A., Nyholm, T.
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Johansson, A., Balter, J., Feng, M., Cao, Y.
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- **Portal Venous Perfusion Quantitation From Liver DCE-MRI by Voxel Uptake Curve Clustering and Input Function Normalization**
Johansson, A., Balter, J., Feng, M., Cao, Y.
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- **Accuracy of inverse treatment planning on substitute CT images derived from MR data for brain lesions.** *Radiation oncology (London, England)*
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- **CT substitutes derived from MR images reconstructed with parallel imaging.** *Medical physics*
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Garpebring, A., Brynolfsson, P., Yu, J., Wirestam, R., Johansson, A., Asklund, T., Karlsson, M.
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- **Evaluation of an attenuation correction method for PET/MR imaging of the head based on substitute CT images.** *Magma (New York, N.Y.)*
Larsson, A., Johansson, A., Axelsson, J., Nyholm, T., Asklund, T., Riklund, K., Karlsson, M.
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Johansson, A., Karlsson, M., Yu, J., Asklund, T., Nyholm, T.
2012; 39 (6): 3283-90
- **CT substitute derived from MRI sequences with ultrashort echo time.** *Medical physics*
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- **VOXEL BASED METHOD TO GENERATE CT EQUIVALENT IMAGES FROM MR IMAGES FOR TREATMENT PLANNING PURPOSES**
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