

SEMINARVORTRAG

Das Institut für Mathematik lädt zu folgendem Vortrag ein:

Andreas Kofler

Department of Radiology, Charité - Universitätsmedizin Berlin, Germany

Deep Learning for Undersampling Artifact Reduction in Cardiac CT and MRI

Dynamic cardiac MRI is challenging due to the fast heart movement. In cardiac CT, several scans have to be performed over time which increase the radiation exposure of the patient. While in MRI, undersampling acquisition schemes are widely used to shorten the scanning process, current CT scanners do not allow for sparse view data acquisition. However, they have been considered in the CT community as an alternative for radiation dose reduction. In both imaging modalities, severe artifacts arise from the reconstruction of undersampled data. Recently, deep neural networks have shown to be promising models for removing undersampling artifacts. We present different approaches for the artifacts reduction using the U-net.

Zeit: Mittwoch, 04. April 2018 um 13.00 Uhr

**Ort: Bauingenieurgebäude, Institut für Mathematik, Seminarraum
Mathematik, Technikerstr. 13, 7.OG**

Gäste sind herzlich willkommen!

Markus Haltmeier