Translational Imaging Center, Bern:

Currently Available Methods and Ongoing Projects

Lecture series with speakers from Bern organized by the Translational Imaging Center @ sitem-insel in Bern on current methods and applications at our center

Current developments on quantitative MRI at high and ultra-high fields

Dr. Gabriele Bonanno, PhD

Siemens Healthineers & Translational Imaging Center

Thursday, April 07 2022, 15:00

Quantitative imaging plays an important role in the study of brain pathologies and has the potential to support diagnosis in several clinical applications. However, conventional techniques for relaxometry are limited by long acquisition times and/or high energy deposition. As a result, translation to clinical workflow is difficult or limited to anisotropic resolution and slice/slab imaging. Magnetization-prepared approaches combined with fast imaging sequences (e.g., FLASH) allow for high isotropic spatial resolution and volumetric whole-brain coverage. These techniques are especially advantageous at ultra-high field where they can benefit from increased signal-to-noise ratio. This talk will focus on advanced methods for magnetization prepared T1, T2, and T1ρ relaxometry at 3 T, as well as preliminary investigations on T2 relaxometry at 7 T.

The lecture will be held as a zoom meeting, please connect using:

https://unibe-ch.zoom.us/j/61954796127?pwd=b25nSWVIVi9PWlV4Vlp3NXpMdjRQdz09

and **do spread the word** to anybody potentially interested. *(for further info: bernd.jung@insel.ch)*