

The TUHH Open Research (TORE) repository contains raw and processed data associated with the publication "Comprehensive study of 3D liquid flow fields in additively manufactured structures for SMART reactors using large-scale vertical magnetic resonance imaging and computational fluid dynamics". The dataset comprises experimental magnetic resonance imaging velocimetry data, numerical results from OpenFOAM simulations, and corresponding design files. The publication investigates the flow behaviour in additively manufactured TPMS structures using a large-bore vertical 3 T MRI system. Cross-validation between experimental measurements and numerical simulations is performed. Three different TPMS geometries are analysed within the Darcy-Forchheimer regime.

Folder Structure

