



Contribution ID: 11

Type: **Vortrag**

First imaging results with the new generation of the KIT 3D Ultrasound Tomography device

Tuesday 18 April 2023 08:15 (20 minutes)

Ultrasound Tomography (USCT) is an emerging technology for early breast cancer detection. At the Institute for Data Processing and Electronics of Karlsruhe Institute of Technology we recently developed and realized a new generation of a full 3D USCT device with a pseudo-randomly sampled hemispherical aperture. In this talk we summarize the concept, provide an overview on hardware components and show first imaging results with phantoms and first volunteer images.

Primary authors: GEMMEKE, Hartmut (Karlsruhe Institute of Technology); ZAPF, Michael (Karlsruhe Institute of Technology); RUITER, Nicole (Karlsruhe Institute of Technology); HOPP, Torsten (Karlsruhe Institute of Technology)

Presenter: HOPP, Torsten (Karlsruhe Institute of Technology)

Session Classification: System-Resultate

Track Classification: Vortrag