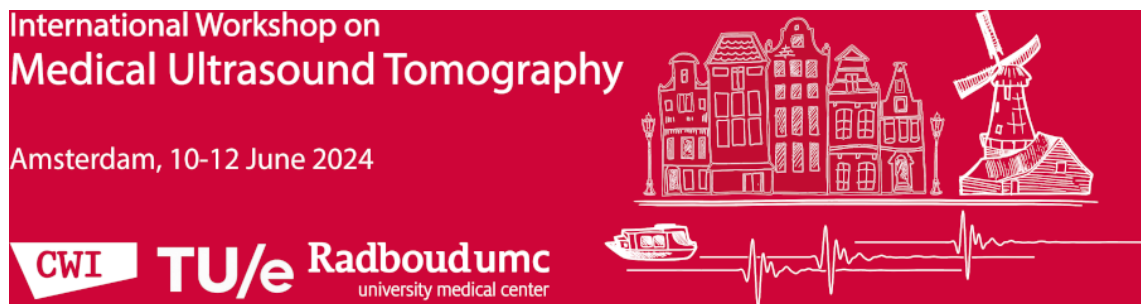


Session Program

Jun 10 - 12, 2024



MUST 2024

Reconstruction Methods & Modeling

Centrum Wiskunde & Informatica, Eulerzaal
Centrum Wiskunde & Informatica Science Park 123 1098 XG Amsterdam

Tue, June 11

1:00 PM

Reconstruction Methods & Modeling: Part 1

Session |**Location:** Centrum Wiskunde & Informatica, Eulerzaal, Centrum Wiskunde & Informatica Science Park 123 1098 XG Amsterdam

13:00 – 13:20

Coupled Viscoacoustic-Viscoelastic Spectral-Element Modeling for Transcranial Ultrasound

Speaker

Patrick Marty

13:20 – 13:40

Interface identification and sound speed reconstruction in layered media: Advancing from synthetic to authentic Ultrasound data

Speaker

Huidong Yang

13:40 – 14:00

Extending diffraction tomography to focused ultrasound configurations

Speaker

Noemi Naujoks

2:00 PM

2:20 PM

Reconstruction Methods & Modeling: Part 2

Session |**Location:** Centrum Wiskunde & Informatica, Eulerzaal, Centrum Wiskunde & Informatica Science Park 123 1098 XG Amsterdam

14:20 – 14:40

Hybrid Gaussian Beam Pseudo-spectral Method for Efficient Wave Propagation in PAT

Speaker

Elliott Macneil

14:40 – 15:00

Uncertainty Estimation in Breast Multiparameter Full Waveform Inversion

Speakers

Aparna Harindranath, Lluís Guasch

3:00 PM

Wed, June 12

10:20 AM

Reconstruction Methods & Modeling: Part 3

Session |
Location: Centrum Wiskunde & Informatica, Eulerzaal, Centrum Wiskunde & Informatica Science Park 123 1098 XG Amsterdam

10:20 – 10:40
Fourier Beamforming for Enhanced Resolution in Ultrasound Computed Tomography

Speaker
Xiang Zhou

10:40 – 11:00 **Determine power law parameters for ultrasound attenuation imaging**

Speaker
Clemens Feucht

11:00 – 11:20 **Full 3D ultrasound tomography: current status at KIT**

Speaker
Nicole Ruiter

11:20 – 11:40
Numerical methods for weakly nonlinear ray tracing approximations in HIFU

Speaker
Matt Foster

11:40 – 12:00 **Computed Ultrasound Tomography in Echo Mode - current status**

Speaker
Michael Jaeger

12:00 PM