Session Program

Aug 12 – 16, 2024

IFIP TC7 System Modeling and Optimization

MS 10: Inverse Problems for Partial Differential Equations

Von-Melle-Park 8
Von-Melle-Park 8, 20146 Hamburg, Germany

Mon, August 12

2:00 PM

MS 10: Inverse Problems for Partial Differential Equations: MS 10-1
Session | **Location:** Von-Melle-Park 8, Seminarraum 211

14:00 – 14:30 **Optimal control of the principal coefficient in a scalar wave equation**

Speaker
Christian Clason

14:30 – 15:00

Conditional gradient methods in total variation regularization of inverse problems for PDEs

Speaker
Jose A. Iglesias

3:00 PM

4:00 PM

MS 10: Inverse Problems for Partial Differential Equations: MS 10-2
Session | **Location:** Von-Melle-Park 8, Seminarraum 211

16:00 – 16:30

Identification of cavities in a nonlinear model arising from electrophysiology

Speaker
Andrea Aspri

16:30 – 17:00 **Monotonicity and Convexity in Inverse Coefficient Problems**

Speaker
Bastian Harrach

5:30 PM

Tue, August 13

11:00 AM

MS 10: Inverse Problems for Partial Differential Equations: MS 10-3
Session | **Location:** Von-Melle-Park 8, Seminarraum 211

11:00 – 11:30

The temporal domain derivative and shape reconstruction in inverse acoustic scattering

Speaker
Marvin Knöller

11:30 – 12:00

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

Speaker
Mr Elliott Macneil

12:00 – 12:30   **Inverse problems for active matter**

Speaker
Anne Wald

12:30 PM

4:30 PM

MS 10: Inverse Problems for Partial Differential Equations: MS 10-4
Session | **Location:** Von-Melle-Park 8, Seminarraum 211

16:30 – 17:00

Bi-level iterative regularization for inverse problems in nonlinear PDEs

Speaker
Tram Nguyen

17:00 – 17:30

A stability result for the identification of a displacement discontinuity jump on linear elasticity equations

Speaker
Dr Jorge Aguayo Araneda

5:30 PM