Session Program

Aug 12 – 16, 2024

IFIP TC7 System Modeling and Optimization

MS 04: Correlation-based passive imaging and optimal experimental design

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

Mon, August 12

2:00 PM

MS 04: Correlation-based passive imaging and optimal experimental design: MS 04-1
Session | **Location:** Von-Melle-Park 8, Seminarraum 207

14:00 – 14:30 **Correlation imaging in telescope imaging and beyond**

Speaker
Tapio Helin

14:30 – 15:00

Inferring solar differential rotation and viscosity via passive imaging with inertial waves

Speaker
Tram Nguyen

3:30 PM

4:00 PM

MS 04: Correlation-based passive imaging and optimal experimental design: MS 04-2
Session | **Location:** Von-Melle-Park 8, Seminarraum 207

16:00 – 16:30 **Optimal experimental design with correlation data**

Speaker
Christian Aarset

16:30 – 17:00

Scalable Method for Bayesian Experimental Design Using the Projection-Based Approximation of Conditional Expectation (PACE)

Speaker
Vinh Hoang

17:00 – 17:30 **Approximative optimal experimental design in Bayesian inversion**

Speaker
Duc-Lam Duong

5:30 PM

1

Tue, August 13

9:00 AM

MS 04: Correlation-based passive imaging and optimal experimental design: MS 04-3
Session | **Location:** Von-Melle-Park 8, Seminarraum 207

09:00 – 09:30 **Bayesian Inversion for Semiconductor Inverse Problems**

Speaker
Leila Taghizadeh

09:30 – 10:00 **Optimality of Pulse Energy for Photoacoustic Tomography**

Speaker
Phuoc Truong Huynh

10:00 – 10:30 **Experimental design in the presence of model error**

Speaker
Nada Cvetkovic

10:30 AM

4:30 PM

MS 04: Correlation-based passive imaging and optimal experimental design: MS 04-4
Session | **Location:** Von-Melle-Park 8, Seminarraum 207

16:30 – 17:00 **Tractable optimal experimental design using transport maps**

Speaker
Karina Koval

17:00 – 17:30

Quasi-Monte Carlo methods for Bayesian optimal experimental design

Speaker
Vesa Kaarnioja

17:30 – 18:00

Efficient nested integration estimators for optimal experimental design

Speaker
Arved Bartuska

6:00 PM