

## **Session Program**

**Aug 12 - 16, 2024**

# **IFIP TC7 System Modeling and Optimization**

## **MS 05: Parallel-in-time methods for PDE-constrained optimization**

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

# Mon, August 12

2:00 PM

## MS 05: Parallel-in-time methods for PDE-constrained optimization: MS 05-1

**Session** | **Location:** Von-Melle-Park 8, Seminarraum 206

14:00 – 14:30

### Parallelization in time for optimal control and inverse problems

#### Speaker

Dr Sebastian Götschel

14:30 – 15:00

### Time Parallel KKT Preconditioners for Transient PDE-Constrained Optimization

#### Speaker

Eric C. Cyr

15:00 – 15:30

### Parallel-in-time multiple shooting for large-scale optimal control problems governed by the 3D Navier-Stokes equations

#### Speaker

Nick Janssens

3:30 PM

4:00 PM

## MS 05: Parallel-in-time methods for PDE-constrained optimization: MS 05-2

**Session** | **Location:** Von-Melle-Park 8, Seminarraum 206

16:00 – 16:30

### A Periodic-in-Time Approximation for Parallel Preconditioning of Instationary Stokes and Oseen Problems

#### Speaker

Bernhard Heinzelreiter

16:30 – 17:00

### A New Diagonalization Based Method for Parallel-in-Time Solution of Linear-Quadratic Optimal Control Problems

#### Speaker

Nathaniel Kroeger

17:00 – 17:30

### Parallel-in-Time Bathymetry Reconstruction

#### Speaker

Judith Angel

5:30 PM