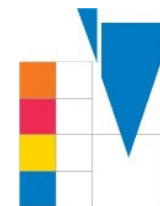


IGDK Munich-Graz - Annual Colloquium 2018

Bildungshaus Mariatrost, Graz

Agenda



Tuesday, 27.11.2018 - updated!

- 11:00 - 11:15** **Welcome Coffee**
- 11:15 - 11:30 Welcome address: Boris Vexler and Karl Kunisch
- 11:30 - 11:45 Johannes Haubner: Shape optimization for unsteady fluid-structure interaction
- 11:55 - 12:10 Sebastian Engel: Optimal control and Bayesian inversion for linear second-order hyperbolic equations by BV-functions in time
- 12:20 - 13:30** **Lunch**
- 13:30 - 13:45 Gernot Holler: Learning nonlocal regularizers using bilevel optimization
- 13:55 - 14:10 Sören Behr: Controllability of bilinear systems and the Runge-Gross theorem
- 14:20 - 14:35 Stefan Dohr: A parallel space-time boundary element method for the heat equation
- 14:45 - 15:15** **Coffee break**
- 15:15 - 15:30 Dominik Hafemeyer: Optimal control of the parabolic obstacle problem: numerical analysis
- 15:40 - 15:55 Anna Buchynskaja: Homogenization of the Poisson-Nernst-Planck problem in a two-phase domain
- 16:05 - 16:20 Niklas Behringer: The Stokes equation - numerical analysis for errors and resolvents
- 16:30 - 18:15 Separate discussion rounds of PIs and PhD students
- 18:30** **Dinner and scientific exchange**

Wednesday, 28.11.2018

- 09:15 - 09:30 Report: Students Workshop 2018
- 09:40 - 09:55 Sandro Belz: A new phase-field approximation of the Mumford-Shah functional
- 10:05 - 10:20 Sebastian Garreis: An interior-point approach for risk-averse, PDE-constrained optimization
- 10:30 - 11:00** **Coffee Break**
- 11:00 - 11:15 Benedikt Graswald: Concentration-compactness in density functional theory
- 11:25 - 11:40 Christof Haubner: Optimal control of a simplified Signorini problem
- 11:50 - 12:15 Constantin Christof: Gradient-based solution algorithms for a class of bilevel optimization and optimal control problems with a non-smooth lower level
- 12:30 - 14:00** **Lunch**
- 14:00 - 14:15 Richard Huber: Optimal control with Bloch equations and applications on magnetic resonance fingerprinting
- 14:25 - 14:40 Sandra Marschke: Sensitivity and parameter identification related to the simulation of violins
- 14:50 - 15:05 Daniel Walter: A sparse sensor placement framework for parameter identification problems with PDE constraints
- 15:15 - 15:45** **Coffee break**
- 15:45 - 16:00 Johannes Milz: An approximation scheme for distributionally robust nonlinear optimization
- 16:10 - 16:25 Daniel Schaden: Bayesian inversion with sparse priors
- 16:35 - 16:45** **Concluding words**