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**