



IGDK Munich-Graz Annual Colloquium 2016

Bildungshaus Mariatrost, Graz

AGENDA – Monday, 05.12.2016

- 11:30 - 11:45** **Welcome address: Boris Vexler and Karl Kunisch**
- 11:45 - 12:00 Lucas Bonifacius: Strong stability of linear parabolic time-optimal control problems
- 12:10 - 12:25 Behzad Azmi: On the global stabilizability of the wave equation via receding horizon control
- 12:35 - 12:50 Johannes Haubner: Numerical aspects of shape optimization for unsteady fluid-structure interaction
- 13:00 - 14:30** **Lunch**
- 14:30 - 14:45 Sandro Belz: Preliminary investigations of fracture models and simulations on manifolds
- 14:55 - 15:10 Chris Münch: Differential equations with hysteresis as a singular limit
- 15:20 - 15:35 Michael Kniely: The entropy method for a reaction-diffusion system modelling band-trapped states
- 15:45 - 16:15** **Coffee break**
- 16:15 - 16:30 Daniel Walter: Gradient-based optimization algorithms for sparse optimal control problems
- 16:40 - 18:30 Discussion rounds of PIs and PhD students
- 18:30** **Dinner**

AGENDA – Tuesday, 06.12.2016

- 09:00 - 09:15** **Report: Students Workshop 2016**
- 09:25 - 09:40 Sergejs Rogovs: Maximum norm estimates on graded meshes with applications to boundary control problems
- 09:50 - 10:05 Stefan Dohr: Preconditioned space-time boundary element methods for the heat equation
- 10:15 - 12:00 Poster session with coffee break
- 12:00 - 13:30** **Lunch**
- 13:30 - 13:55 Christian Kahle: Optimal control of two-phase flow
- 14:05 - 14:20 Sören Behr: Time-dependent density functional theory and optimal control
- 14:30 - 14:45 Sebastian Engel: Optimal control of the wave equation with BV-functions
- 14:55 - 15:25** **Coffee break**
- 15:25 - 15:40 Piotr Swierczynski: Energy-correction method for Dirichlet boundary control problem
- 15:50 - 16:05 Phillip Jarde: Optical flow based image sequence interpolation
- 16:15 – 16:30** **Conclusion**