IGDK 1754 – Annual Colloquium 2014

Herrsching am Ammersee

AGENDA – Wednesday, 03.12.2014

12:00 - 13:30	**Lunch**
13:30 - 13:45	Introduction B. Vexler/K. Kunisch
13:45 - 14:00	Tang Quoc Bao *„Analysis and numerics of volume-surface reaction-diffusion systems modeling asymmetric stem cell division“*
14:10 - 14:25	Felix Henneke *„Frequency-sparse Control of Coupled Schrödinger Equations“*
14:35 - 14:50	Daniel Kraft *„Gradient Descent and Gradient Flow Methods in the Context of Shape Optimisation“*
15:00 - 15:20	**Coffee Break**
15:20 - 15:35	Konstantin Pieper *„Time optimal control for a reaction diffusion system arising in cardiac electrophysiology“*
15:45 - 16:00	Max Winkler *„Numerical analysis for Neumann boundary control problems on polyhedral domains”*
16:10 - 16:25	Moritz Keuthen *„Shape Optimization with Geometric Constraints“*
16:25 - 16:45	**Coffee Break**
16:30 - 17:30	Discussion Rounds of PIs and PhD Students
18:30	**Dinner**

AGENDA – Thursday, 04.12.2014

09:00 - 09:15	Report Students Workshop 2014
09:25 - 09:40	Matthias Gsell *„Domain decomposition methods for nonlinear transmission conditions“*
09:50 - 10:05	Olena Burkovska *„Reduced basis methods for variational inequalities and application to option pricing“*
10:15 - 10:45	**Coffee Break**
10:45 - 11:00	David Sattlegger *„A robust algorithm for solving Schrödinger equations in high dimensions and its parallelization“*
11:10 - 11:25	Matthias Lang-Batsching *„Optimal control of Evolutions with Hysteresis”*
11:35 - 11:50	Marco Artina *„Numerical Methods for Nonsmooth Variational Problems in Mechanics”*
12:00 - 13:30	**Lunch**
13:30 - 15:00	Poster Session and Coffee Break
15:00 - 15:15	Behzad Azmi *„On the Stabilizability of the Burgers' Equation via Receding Horizon Control“*
15:25 - 15:40	Philip Trautmann *„Measure valued optimal control problems governed by wave equations“*
15:50 - 16:05	Philipp Jarde *„PDE-constrained optimization approaches for optical flow based image sequence interpolation“*
16:15 - 16:35	**Coffee Break**
16:35 – 17:05	Guest Lecture: Dr. Ulrik Fjordholm
17:15 - 18:30	Discussion Rounds of PIs and PhD Students
18:30	**Dinner**