Workshop on Reduced Basis Methods
University of Ulm, 7./8.12.2010
University of Ulm, Senatssaal, Helmholtzstr. 16

Tuesday, 07.12.2010

17:00 Hans-Kupczyk-Award to Professor Dr. Anthony T. Patera
Smartphone as Supercomputer Surrogate: In-Situ Scientific Simulation

Wednesday, 08.12.2010

08:30 Opening

08:40 – 09:25
Gianluigi Rozza, EPFL Lausanne
RBM for the simulation and optimization of haemodynamics problems

09:25 – 09:55
Bernard Haasdonk, Univ. Stuttgart
Reduced Basis-Methods for Variational Inequalities

09:55 – 10:20
Stefan Volkwein, Univ. Konstanz
POD Basis Computation for Nonlinear Optimal Control Problems

10:20 – 10:50 Coffee Break

10:50 – 11:20
Clemens-August Thole, Fraunhofer SCAI, Sankt Augustin
Comparative Mode Analysis for Crash Simulation Results

11:20 – 11:45
Kathrin Smetana, Univ. Münster
A new problem adapted hierarchical model reduction technique based on reduced basis methods and dimensional splitting

11:45 – 12:10
Martin Drohmann, Univ. Münster
Software concepts for coupled detailed and reduced simulations

12:10 – 12:35
Anna-Lena Gerner, RWTH Aachen
RB Approximation and Error Estimation for Saddle Point Problems: Application to the Stokes Equations

12:35 – 14:00 Lunch Break

14:00 – 14:25
Nadine Jung, TU München
MOR and Error Estimator for the Parameter-Dependent Eddy Current Equation

14:25 – 14:50
Timo Tonn, Univ. Ulm
Efficient Approximation of Non-Affine Forms within the RBM

14:50 – 15:15
Bernhard Wieland, Univ. Ulm
Reduced Basis Methods for problems with stochastic influences

15:15 – 15:40
Kristina Steih, Univ. Ulm
Reduced Basis Methods for time-periodic evolution problems

15:40 Closing

Organizers: M. Grepl, K. Veroy-Grepl (Aachen), B. Haasdonk (Stuttgart), M. Ohlberger (Münster), K. Urban (Ulm), S. Volkwein (Konstanz)

Registration until 28.11.2010 via E-Mail to:
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