CONFERENCE PROGRAM

Reliable Methods of Mathematical Modeling
University of Jyväskylä, Finland
July 1-3, 2013

Day 1. July 1, 2013

Chair P. Neittaanmäki

$10^{00} - 10^{10}$ P. Neittaanmäki. Opening

$10^{10} - 11^{00}$ D. Braess
A posteriori error estimates for discontinuous Galerkin methods by equilibration

$11^{00} - 11^{20}$ Coffee break

Chair D. Braess

$11^{20} - 11^{50}$ M. Feischl
Quasi-optimal adaptive FEM for non-symmetric operators

$11^{50} - 12^{20}$ O. Mali
Measures for the performance of error indicators

$12^{30} - 13^{30}$ Lunch

Chair S. Sauter

$13^{30} - 14^{20}$ R. Stevenson
Instance optimality of the adaptive maximum strategy

$14^{20} - 15^{00}$ S. Tomar
Guaranteed and sharp a-posteriori error estimates in isogeometric analysis

$15^{00} - 15^{30}$ Coffee break

Chair R. Stevenson

$15^{30} - 16^{00}$ K. Köhler
Non-conforming finite element methods for the obstacle problem

$16^{00} - 16^{30}$ A. Springer
Higher order adaptive time discretization for parabolic optimal control problems

$16^{30} - 17^{00}$ S. Matculevich
Computable estimates of the distance to the exact solution of the evolutionary equation

17^{00} Welcome reception

Day 2. July 2, 2013

Chair S. Repin

$10^{00} - 10^{50}$ S. Sauter
The saturation property for p-refinement

$10^{50} - 11^{20}$ F. Hecht
A posteriori error estimates for discontinuous Galerkin methods by equilibration

$11^{20} - 11^{50}$ Coffee break

Chair S. Tomar

$11^{50} - 12^{20}$ T. Samrowski
Estimates of modelling errors for linear elliptic problems

$12^{20} - 12^{50}$ F. Gaspoz
AFEM for PDE constrained Dirichlet optimal control

$12^{50} - 13^{20}$ M. Frolov
Efficient implementation of the functional approach to a posteriori error estimation for linear elasticity based on Arnold-Boffo-Falk approximation

$13^{20} - 13^{50}$ M. Nokka
TBD

$13^{50} - 14^{50}$ Lunch

$15^{00} - 16^{30}$ Bus excursion in Jyväskylä

$17^{00} - 19^{00}$ Sauna and/or refreshments

$19^{00} - 21^{00}$ Dinner

Day 3. July 3, 2013

Chair O. Mali

$10^{\underline{00}} - 10^{\underline{50}}$	O. Pironneau *Difficult Computational Encounters in Hemodynamics*
$10^{\underline{50}} - 11^{\underline{40}}$	Y. Kuznetsov *TBA*
$11^{\underline{40}} - 12^{\underline{10}}$	Coffee break

Chair Y. Kuznetsov

$12^{\underline{10}} - 13^{\underline{00}}$	S. Repin *On mathematical methods generating fully reliable a posteriori estimates for non-linear boundary value problems*
$13^{\underline{00}} - 13^{\underline{30}}$	T. Saksa *A unified continuum model problem: a flow of a continuous plate through a box*
$14^{\underline{00}} - 15^{\underline{00}}$	Lunch
$15^{\underline{00}} - 15^{\underline{10}}$	Closing