

Program of the conference

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PROGRAM OF THE CONFERENCE

Wednesday, May 15

- 13.00–14.00 Registration
14.00–14.30 Opening
 Presentation of the Medal of the Czech Mathematical Society
 to Karel Segeth
14.30–15.00 JAN BRANDTS
 Counting triangles that share their vertices with the unit n -cube
15.00–15.30 Coffee Break
15.30–16.00 MILOSLAV FEISTAUER
 Analysis of the discontinuous Galerkin method for elliptic problems with boundary singularities
16.00–16.30 SERGEY KOROTOV
 Nonobtuse refinements of tetrahedral FE meshes
16.30–17.00 ANTTI HANNUKAINEN
 Pseudospectral analysis of preconditioners for the Helmholtz equation
17.00–17.20 PAVEL BURDA
 Application of analytical solution of rotationally symmetric Stokes flow near corners
18.00–22.00 Welcome Party, Blue Hall

Thursday, May 16

- 9.00– 9.30 VÍT DOLEJŠÍ
 hp -anisotropic mesh adaptation technique based on interpolation error estimates
9.30–10.00 JÁNOS KARÁTSON
 Discrete maximum principles for nonlinear PDEs
10.00–10.30 BELOSLAV RIEČAN
 Small systems and fuzzy sets
10.30–11.00 Coffee Break
11.00–11.30 ZDENĚK DOSTÁL
 Scalable algorithm and variationally consistent discretization for contact problems
11.30–12.00 ISTVÁN FARAGÓ
 Convergence and stability constant in the theta-method

- 12.00–14.00 Lunch Break
- 14.00–14.20 MIROSLAV FIEDLER
A quasicondition number of matrices
- 14.20–14.40 ŠÁRKA NEČASOVÁ
Incompressible limits of fluids excited by moving domains
- 14.40–15.00 DRAHOSLAVA JANOVSKÁ
Zero points of quadratic matrix polynomials
- 15.00–15.20 LUCIE KÁRNÁ
Detection codes in railway interlocking systems
- 15.20–15.40 Coffee Break
- 15.40–16.00 JIŘÍ VALA
On the computational identification of temperature variable characteristics of heat transfer
- 16.00–16.20 PETR VANĚK
Multigrid with aggressive coarsening and polynomial smoothing 1
- 16.20–16.40 ROMAN KUŽEL
Multigrid with aggressive coarsening and polynomial smoothing 2
- 16.40–17.00 PAVLA FRAŇKOVÁ
Multigrid with aggressive coarsening and polynomial smoothing 3
- 18.00–23.00 Conference Dinner, U Seminaristy Restaurant, Spálená St. 45

Friday, May 17

- 9.00– 9.30 SHUHUA ZHANG
The valuation of weather derivatives and corresponding numerical methods
- 9.30–10.00 KAREL KOZEL
Numerical solution of 2D and 3D unsteady flow in a channel with low upstream velocity
- 10.00–10.30 HEHU XIE
The lower and upper bounds of eigenvalues by the finite element method
- 10.30–11.00 Coffee Break
- 11.00–11.30 PETR SVÁČEK
On numerical modelling of gust response of an airfoil section
- 11.30–12.00 VLADIMÍR JANOVSKÝ
Path-following the static contact problem with Coulomb friction
- 12.00–14.00 Lunch Break
- 14.00–14.20 TORSTEN LINSS
A posteriori error estimation for parabolic PDEs

- 14.20–14.40 ZBYNĚK VASTL
Multigrid with aggressive coarsening and polynomial smoothing 4
- 14.40–15.00 HANA KOPINCOVÁ
Multigrid with aggressive coarsening and polynomial smoothing 5
- 15.00–15.20 MILAN HANUŠ
Multigrid with aggressive coarsening and polynomial smoothing 6
- 15.20–15.40 Coffee Break
- 15.40–16.00 VRATISLAVA MOŠOVÁ
Integral transformations – the base of recent technologies
- 16.00–16.20 JAROSLAV MLÝNEK
Parallel programming and optimization of heat radiation intensity
- 16.20–16.40 JAN CHLEBOUN
A random set approach applied to definite integration of uncertain functions
- 16.40–17.00 TOMÁŠ VEJCHODSKÝ
Two-sided bounds of eigenvalues with applications to trace inequalities
- 17.00–17.20 JAKUB ŠÍSTEK
Parallel adaptive-multilevel BDDC method

Saturday, May 18

- 9.00–12.00 A walk through the Elephant Valley in the zoological garden