

Parallel Numerical Computing and Its Applications

Mathematical Institute, Department of Informatics
Slovak Academy of Sciences, Bratislava, Slovakia

SMOLENICE, September 7-9, 2016

Workshop in honor of **Prof. Marián Vajteršic**

PROGRAM

SEPTEMBER 7

8:00 - 14:00

Arrival of participants from Bratislava to Smolenice

13:00 - 15:00

Lunch

Session 1 (chairman: Gabriel Okša)

16:00 - 16:30

Selim Akl, Queen's University, Kingston, Canada:

On Computable Numbers, Nonuniversality, and the Genuine Power of Parallelism

16:30 - 17:00

Peter Zinterhof, University of Salzburg, Austria:

Kernels, Sequences and Errors: Some Results in Approximation Theory and Numerics

17:00 - 17:30

Elisa Francomano, University of Palermo, Italy:

On Some Kernel-Based Approximation Methods and Applications

19:00

Dinner

SEPTEMBER 8

7:30 - 8:45

Breakfast

Session 2 (chairman: Martin Bečka)

9:00 - 9:30

Vjerran Hari, University of Zagreb, Croatia:

On Jacobi Methods for the Positive Definite Generalized Eigenvalue Problem

9:30 - 10:00

Stratis Gallopoulos, University of Patras, Greece:

Some Recent Interpretations and Implementations of Parallel Tridiagonal and Elliptic Solvers

10:00 - 10:30

Xiaoye Sherry Li, Lawrence Berkeley National Laboratory, Berkeley, United States:
Hierarchically Low-Rank Structured Approximate Factorization Using Randomized Sampling

10:30 - 11:00

Coffee break

Session 3 (chairman: Imrich Vrťo)

11:00 - 11:30

Petter Bjoerstad, University of Bergen, Norway:
On Multi-Scale Preconditioners for Elliptic Problems with Discontinuous Coefficients

11:30 - 12:00

Bruno Apolloni, University of Milan, Italy:
A Possible Hamiltonian of Social Communities' Dynamics

12:30 - 13:30

Lunch

13:45 - 18:00

Trip to the Red Stone Castle (Červený kameň) and to the wine shop in Dol'any

19:00

Gala-Dinner

SEPTEMBER 9

8:00 - 9:00

Breakfast

Session 4 (chairman: Gabriel Okša)

9:30 - 10:00

Hans Zima, Jet Propulsion Laboratory, Pasadena, United States:
Language Support for Exascale Resilience

10:00 - 10:30

Yusaku Yamamoto, The University of Electro-Communications, Tokyo, Japan:
Convergence Analysis of the Parallel Block Jacobi Method for the SVD with Dynamic Ordering

10:30 - 11:00

Coffee break

12:00 - 13:00

Lunch

Afternoon: departure to Bratislava