

Workshop on Efficient Numerical Methods for Partial Differential Equations

August 13-18, 2012, Urumqi, China

Full Schedule

Monday 8/13/2012

10:50-11:00	Opening Ceremony
11:00-13:20	Chair : Zhaojun Bai
11:00-12:00	Youcef Saad : Algebraic Multilevel Preconditioning Techniques with Applications
12:00-12:20	Tea Break
12:20-13:20	Panayot S. Vassilevski : Dimension Reduction Via Element-Based Algebraic Multigrid Coarsening
13:30-15:30	Lunch
15:30-19:50	Chair : Youcef Saad
15:30-16:30	Ming Gu : Low-Rank Matrix Approximations and Randomized Sampling
16:30-17:30	Ren-Cang Li : Solving Large Scale Linear Response Eigenvalue Problems
17:30-17:50	Tea Break
17:50-18:50	Xiaoye Li : Fast and Memory-Efficient Approximate Sparse Factorizations Using Hierarchically Semi-Separable Matrix Structures
18:50-19:50	Zeyao Mo : Possible Stack for Parallel Programming Models for Scientific Computing
20:00	Dinner

Tuesday 8/14/2012

11:00-13:20	Chair : Jinchao Xu
11:00-12:00	Howard Elman : Efficient Solution Algorithms for Partial Differential Equations with Random Coefficients
12:00-12:20	Tea Break
12:20-13:20	Ivan G. Graham : Quasi-Monte Carlo Methods for Computing Flow in Random Porous Media
13:30-15:30	Lunch
15:30-19:50	Chair : Howard Elman
15:30-16:30	Martin J. Gander : On the Origins of Domain Decomposition Methods
16:30-17:30	Jun Zou : Efficient Domain Decomposition and Multilevel Methods for Some Linear and Nonlinear Inverse Problems
17:30-17:50	Tea Break
17:50-18:50	Xuejun Xu : Dirichlet-Neumann Operator and Robin-type Domain Decomposition
19:20	Gathering in the lobby of the hotel to dinner

Wednesday 8/15/2012

10:30-12:50	Chair : Zhiming Chen
10:30-11:30	Ragnar Winther : Uniform Preconditioners and the Taylor-Hood Method
11:30-11:50	Tea Break
11:50-12:50	Matthias Bollhoefer : Efficient Numerical Methods for Maxwell Equations
13:15-14:00	Lunch
14:00	Gathering in the lobby of the hotel
14:00-20:00	Tour 1: Visiting Tian Chi

Thursday 8/16/2012

11:00-13:20	Chair : Martin J. Gander
11:00-12:00	Jinchao Xu : The Single-Grid Multilevel Method
12:00-12:20	Tea Break
12:20-13:20	James Brannick : Multigrid Methods for the Dirac Equation
13:30-15:30	Lunch
15:30-18:50	Chair : Ragnar Winther
15:30-16:30	Aihui Zhou : Symmetry and Hierarchy Based Eigenvalue Computations
16:30-17:30	Zhaojun Bai : A Fast Solver for Ill-Conditioned Generalized Eigenproblems in Electronic Structure Calculations
17:30-17:50	Tea Break
17:50-18:50	Long Chen : Multigrid Methods for Stokes Equations based on Distributive Gauss-Seidel Relaxation
19:00	Dinner

Friday 8/17/2012

09:00-18:00	Tour 2 : the Trip of Turpan
09:00	Gathering in the lobby of the hotel

Saturday 8/18/2012

10:00-14:00	Tour 3 : the Trip of Nanshan Pasture
10:00	Please check out before 10:00AM. Gathering in the lobby of the hotel together with your luggage.