

SPARSE DAYS 2024, June 17-18

Monday, June 17

09:30	WELCOME COFFEE	
09:50	WELCOME MESSAGE	
10:00	SESSION 1	
10:00	Weifeng Liu	Pangulu: A Scalable Regular Two-Dimensional Block-Cyclic Sparse Direct Solver on Distributed Heterogeneous Systems
10:30	Samuel Rodriguez	Accelerating Sparse Direct Solvers: Strategies for High Performance on NVIDIA GPUs
11:00	Théo Briquet	Learning for Predicting the Rank of Hierarchical Matrices
11:30	Sherry Li	Construction of Hierarchically Semi-Separable Matrix Using Faster Randomized Sketching
12:00	Nabil Abubaker	Scaling Stratified Stochastic Gradient Descent for Distributed Matrix Completion
12:30	LUNCH BREAK	
14:00	SESSION 2	
14:00	Barbara Wohlmuth	Large Scale Generation of Matern Type Random Fields
14:30	Niklas Baumgarten	A Budgeted Multi-Level Monte Carlo Method for Function Valued Estimates of Multi-PDE Problems
15:00	Jérémy Briant	A Filtered Multilevel Monte Carlo Method for the Estimation of Discretized Random Fields
15:30	Jean-Guillaume De Damas	Randomized Implicitly Restarted Arnoldi Method for Large and Sparse Non-Symmetric Eigenproblems
16:00	COFFEE BREAK	
16:30	SESSION 3	
16:30	Petr Vacek	The Effect of Approximate Coarsest-Level Solves on the Convergence of Multigrid V-Cycle Methods
17:00	Michael Zikeli	Mixed Precision Multigrid Methods on Hybrid Tetrahedral Grids
17:30	Dinesh Parthasarathy	Evolving Algebraic Multigrid Methods using Grammar-Guided Genetic Programming
18:00	Hadrien Godé	Comparison of Multigrid and Machine Learning-Based Poisson Solvers
20:00	GALA DINNER	

Tuesday, June 18

09:30	WELCOME COFFEE	
10:00	SESSION 4	
10:00	Frédéric Nataf	Adaptive Coarse Space for Saddle Point Problem
10:30	El-Mehdi Ettaouchi	Nonlinear Schwarz Domain Decomposition Solvers for Two-Phase Flow in Porous Media
11:00	Miroslav Tůma	A Half Precision Incomplete Cholesky Factorization Preconditioning
11:30	Ieva Daužickaitė	Mixed Precision FGMRES
12:00	Murat Manguoglu	A Null-Space Method Based Algebraic Iterative Scheme for Saddle Point Problems
12:30	CLOSING MESSAGE	
12:45	LUNCH BREAK	