

SPARSE DAYS 2023, June 19-20

Monday, June 19

09:30	WELCOME COFFEE	
09:50	WELCOME MESSAGE	
10:00	SESSION 1	
10:00	Alycia Lisito	New parallel features in the sparse solver PaStiX
10:30	Matthias Bollhoefer	Parallel updates for direct and incomplete factorization methods
11:00	James D. Trotter	Sparse matrix reordering for sparse matrix-vector multiplication
11:30	Luk Burchard	SRAM-based computations for sparse unstructured-mesh computation on massively tiled AI-processors
12:00	LUNCH BREAK	
14:00	SESSION 2	
14:00	Charles Bouillaguet	Sparse Gaussian elimination modulo p
14:30	Océane Koska	Implementing sparse and dense matrices in quantum algorithms
15:00	Maksym Shpakovych	Neural network preconditioning of large linear systems
15:30	COFFEE BREAK	
16:00	SESSION 3	
16:00	Yves Durand	The Variable eXtended Precision Accelerator VXP preliminary performance results on generic Krylov-based solvers
16:30	Nils Kohl	Multigrid Methods using Block Floating Point Arithmetic
17:00	Jennifer Scott	Approximating sparse Hessian matrices using large-scale linear least squares
19:30	GALA DINNER	

Tuesday, June 20

09:30	WELCOME COFFEE	
10:00	SESSION 4	
10:00	Julien Langou	Update on various efforts related to Numerical Linear Algebra software
10:30	Nicolas Venkovic	Preconditioners based on Voronoi quantizers of random coefficient fields for the iterative solves of stochastic elliptic partial differential equations
11:00	Andrei Dumitras	Generalized Golub-Kahan bidiagonalization for nonsymmetric saddle point systems
11:30	Fabian Böhm	Matrix-free implementation and evaluation of the enriched Galerkin finite element method for the Stokes problem with varying viscosity
12:00	LUNCH BREAK	
14:00	SESSION 5	
14:00	Jérémy Briant	A filtered multilevel Monte Carlo method for the estimation of discretized random fields
14:30	Philippe Leleux	Row replicated block Cimmino
15:00	Evan Gorman	Sparsification of large ultrametric matrices insights into the microbial tree of life
15:30	CLOSING MESSAGE	