



SAINT-GIRONS CONFERENCE

GENERATING IDEAS FOR A NUMERICAL WORLD

June 29 - July 3, 2026

Posters

- Nathan Aubert (CERFACS)
Quantum algorithm for nonlinear iterative schemes
- Tom Caruso (INRIA)
Mixed precision domain decomposition preconditioner
- Sai Aakash Dasari (CERFACS)
Leveraging Graph Partitioning to Accelerate H-matrix Solvers
- Hugo Dodelin (INRIA)
HPC Matrix Multiplication with a MapReduce Model
- Ouassel El Habti (Sorbonne Université, CNRS, LIP6 & EDF)
Compressing sparse direct solvers with block low-rank matrices with shared bases
- Takeshi Fukaya (Hokkaido University)
Performance Evaluation of CholeskyQR-Type Algorithms for Tall-Skinny QR Factorization
- Julien Gaupp (INRIA)
STF++ : Sequential Task Flow with a C++ interface and its application to dense linear algebra
- Shun-ichiro Hayashi (Nagoya University)
VIBECODEHPC: HPC Auto-Tuning with CLI-based Multi-agents and Local LLM Support
- Guillaume Helbecque (Université de Lille)
PGAS-based parallel branch-and-bound for ultra-scale supercomputers
- Karmijn Hoogveld (CNRS)
RandQRCP-ID: a QR-based randomized interpolative decomposition method for fixed-accuracy low-rank approximations
- Davit Khalatyan (American University of Armenia)
Implementation of Quantum Atomic Logic Gate in the Cesium D2 Line
- Suraj Kumar (INRIA)
Minimizing Communication for Parallel Symmetric Matricized-Tensor Times Khatri-Rao Product
- Alexandre Malhéné (INRIA)
When Should GMRES Stop? Practical Stopping Criteria for GMRES
- Samuel Mendoza (INRIA)
Toward a high-level of expressiveness for sparse direct methods
- Clément Peaucelle (Airbus & INRIA)
Introducing Floating-Point Compression In An Industrial, Task-Based Hierarchical Solver
- Gabriel Berk Pereira (University of Oxford)
Krylov Subspace Acceleration for First-Order Splitting Methods in Convex Quadratic Programming
- Jordan Ramassamy (Toulouse INP - IRIT)
Auto-differentiable ensemble Kalman filters with adaptive inflation
- Rony Ramia (CERFACS)
Quantum Measurement Protocols for Scientific Computing
- Ehouarn Simon (Toulouse INP - IRIT)
A kernel extension of the ETKF and a localization strategy
- Alexandre Tabouret (Sorbonne Université, CNRS, LIP6)
Adaptive Precision Restarted GMRES for Solving Sparse Linear Systems
- Zoran Tomljanovic (School of Applied Mathematics and Informatics, University of Osijek)
A Scalable Framework for Simultaneous Optimization of Damper Placement and Viscosities
- Dimitri Walther (CEA CESTA, Univ. Bordeaux, CNRS, Bordeaux INP, INRIA, LaBRI, UMR 5800)
Leveraging Graph Partitioning to Accelerate H-matrix Solvers
- Sijia Yu (Free university of Bolzano-Bozen)
Revealing Hidden Structure in Total Least Squares via Structural Decomposition