

Session Program

May 18 - 22, 2026



27th Conference of the International Linear Algebra Society (ILAS 2026)

Application-Driven Family of Matrix Computations: Factorization, Inverse, Linear Solve

Virginia Tech
Blacksburg, VA 24061

Mon, May 18

3:45 PM

Application-Driven Family of Matrix Computations: Factorization, Inverse, Linear Solve: C

Session | Location: Virginia Tech, Goodwin Hall 155

3:45 - 4:10 PM

Scalable Approximate Selected Inversion via ILU and Spectral Corrections for Sparse Systems

Speaker

Tahamina Akter

4:10 - 4:35 PM

Matrix-Free Geometric Multigrid Preconditioning Of Combined Newton-GMRES For Solving Phase-Field Fracture With Local Mesh Refinement

Speaker

Prof. Thomas Wick

4:35 - 5:00 PM

Loracx: Low Rank Approximations with Constraints at Exascale

Speaker

Ramakrishnan Kannan

5:00 - 5:25 PM

Exploiting Kronecker Structure and Krylov Subspaces for Scalable Second-Order Optimization in Federated Physics-Informed Neural Networks

Speaker

Amit Upadhyay

5:25 PM