MSI04. Matrix equations.

Organizers: Andrii Dmytryshyn.

MONDAY, 11:10–11:40: **AULA 15**. A new low-rank solver for algebraic Riccati equations based on the matrix sign function and principal pivot transforms. Peter Benner.

MONDAY, 11:40–12:10: **AULA 15**. Chebyshev HOPGD for parameterized linear systems. Siobhan Correnty.

MONDAY, 12:10–12:40: **AULA 15**. A mixed-precision algorithm for the Sylvester equation. Massimiliano Fasi.

MONDAY, 12:40–13:10: **AULA 15**. Efficient iterative methods for the solution of Generalized Lyapunov Equations: Block vs. point Krylov projections, and other controversial decisions. Daniel Szyld.

MONDAY, 17:00–17:30: **AULA 15**. On a new family of low-rank algorithms for large-scale algebraic Riccati equations. Heike Fassbender.

MONDAY, 17:30–18:00: **AULA 15**. On computing modified moments for half-range Hermite and Pollaczek-Hermite weights in floating point arithmetic. Nicola Mastronardi.

MONDAY, 18:00–18:30: **AULA 15**. Balanced Truncation Model Reduction of Parametric Differential-Algebraic Systems. Matthias Voigt.

MONDAY, 18:30–19:00: **AULA 15**. A delayed shift technique for M-matrix algebraic Riccati equations. Federico Poloni.

TUESDAY, 11:10–11:40: **AULA 15**. Numerical solution of a class of quasi-linear matrix equations. Valeria Simoncini.

TUESDAY, 11:40–12:10: **AULA 15**. Inexact low-rank ADI for large-scale Sylvester equations. Patrik Kürschner.

TUESDAY, 12:10–12:40: **AULA 15**. Deflating subspaces of palindromic pencils and the T-Riccati matrix equation. Bruno Iannazzo.

TUESDAY, 12:40–13:10: **AULA 15**. Compress-and-restart block Krylov subspace methods for Sylvester matrix equations. Kathryn Lund.

Updated: 02 June 2023