MSC12. Model reduction and learning reduced models through the lens of linear algebra and of optimization.

Organizers: Ion Victor Gosea, Zoran Tomljanovic.

MONDAY, 11:10-11:40: **AULA 10**. On the Loewner framework for model reduction. Athanasios C. Anthoulas.

MONDAY, 11:40-12:10: **AULA 10**. From matrix equations to surrogate models. Jens Saak.

MONDAY, 12:10-12:40: **AULA 10**. Data-driven balancing: what to sample for different types of balanced reduced models. Serkan Gugercin.

MONDAY, 12:40-13:10: **AULA 10**. An Eigensystem Realization Algorithm for Continuous-Time Systems and Its Connection with the Hankel Operator. Igor Pontes Duff.

MONDAY, 17:00-17:30: **AULA 10**. Optimal reduced-order modeling for structured linear systems. Petar Mlinaric.

MONDAY, 17:30-18:00: **AULA 10**. H2 optimal model reduction for simply connected domains. Alessandro Borghi.

MONDAY, 18:00-18:30: **AULA 10**. On multi-objective optimization of model reduction for port-Hamiltonian systems. Jonas Nicodemus.

MONDAY, 18:30-19:00: **AULA 10**. Parametric Linearization of Nonlinear Dynamical Systems Subject to Periodic Inputs. Giovanni Coni.

WEDNESDAY, 11:10-11:40: **AULA 10**. Numerical linear algebra aspects of the Dynamic Mode Decomposition. Zlatko Drmac.

WEDNESDAY, 11:40-12:10: **AULA 10**. One can hear the impedance and loss profiles of a string: from the discrete to continuum dissipative inverse problem. Vladimir Druskin.

WEDNESDAY, 12:10-12:40: **AULA 10**. Randomized POD-Beyn algorithm for nonlinear eigenvalue problems - analysis and perspectives. Luka Grubisic.

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