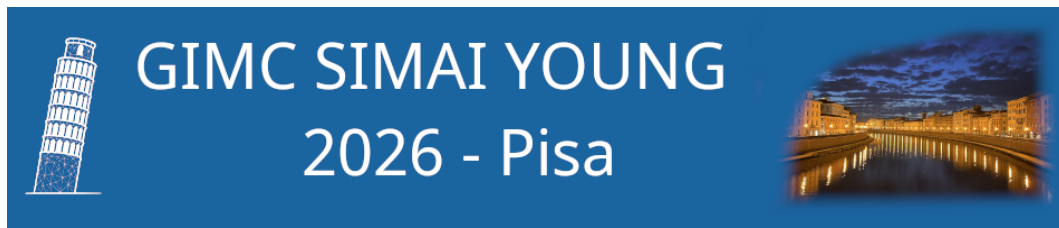


Session Program

3-5 Jun 2026



GIMC SIMAI Young 2026

MS01 - Advanced Numerical Methods and Models for Coupled Solid Problems and Multiphysics Systems

Pisa

Friday 5 June

09:00

MS01 - Advanced Numerical Methods and Models for Coupled Solid Problems and Multiphysics Systems

Session | Location: Aula B

09:00-09:15

Improving the accuracy of the Fictitious Domain method in domains with embedded inclusions.

Speaker

Gregorio Casella

09:15-09:30

Fully coupled nonlinear electromechanical user-element framework for 3D-printed lead-free ferroelectric ceramics

Speaker

Pieter Laureys

09:30-09:45

Fluid-Structure Interaction for Hydrofoils

Speaker

Luca Cattarossi

09:45-10:00

Carbonation-Driven Cracking in Concrete: A Multiphysics Phase-Field Approach

Speaker

Lorenzo Mingazzi

10:00-10:15

A Partitioned Solver for the Fluid-Solid Interaction of Lightweight Flexible Structures

Speaker

Mario Pistis

10:15-10:30

Mass-zero constrained molecular dynamics for electrostatic processes

Speaker

Federica Troni

10:30-10:45

Quasi-singular quadrature strategy for BEM-based contact detection

Speaker

Irene Nesi

10:45