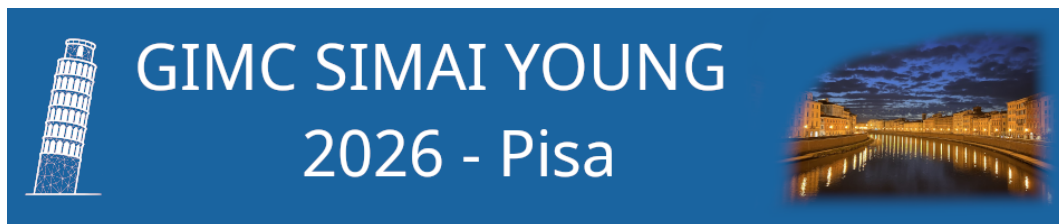


Session Program

3-5 Jun 2026



GIMC SIMAI Young 2026

MS03 - Graph Neural Networks for Computational Physics

Pisa

Thursday 4 June

11:15

MS03 - Graph Neural Networks for Computational Physics

Session | Location: Aula E

11:15-11:30

Learning Vascular Hemodynamics: Physics-Informed GNNs Inference from Capillary Networks to Pulsatile Flow

Speaker

Paolo Botta

11:30-11:45

Graph-Based Nonlinear Reduced-Order Modeling for Time-Domain Electromagnetics

Speaker

Carlotta Filippin

11:45-12:00

Latent Dynamics Graph Convolutional Networks for model order reduction of parameterized time-dependent PDEs

Speaker

Lorenzo Tomada

12:00-12:15

Coupling Physically Informed Graph Neural Networks with External Solvers

Speaker

Niccolò Picchiarelli

12:15-12:30

Physics Informed Graph Neural Networks for Nonlinear Dynamics

Speaker

Gennaro Calandriello

12:30-12:45

Physics-constrained identification of graph-based thermal networks for spacecraft digital twins

Speaker

Luca Sosta

12:45