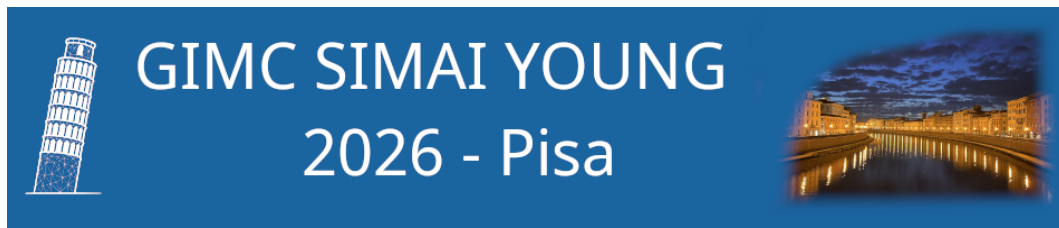


Session Program

3-5 Jun 2026



GIMC SIMAI Young 2026

MS09+MS12 - Advances and Open Problems in CFD and FSI for Bioengineering Applications

Pisa

Thursday 4 June

11:15

MS09+MS12 - Advances and Open Problems in CFD and FSI for Bioengineering Applications

Session | Location: Aula C

11:15-11:30

Patient-Specific CFD versus Fluid-Structure Interaction Models of the Carotid Bifurcation

Speaker

Mariachiara Arminio

11:30-11:45

Immersed Boundary Method for Mitral Valve Modelling

Speaker

Sarah Donaldson

11:45-12:00

1-D CFD Model of Arterial Haemodynamics with Profunda Femoris Collateral Pathway: A Case Study in Lower-Limb Peripheral Artery Disease

Speaker

Mia Wan

12:00-12:15

Predicting post-TEVAR endoleaks: a pre-operative hemodynamic risk factor from patient-specific Fluid-Structure Interaction simulations

Speaker

Francesca Duca

12:15-12:30

Flexural Properties of Bone-Inspired Composite Structures Fabricated via Polyjet Technology

Speaker

Matteo Sestini

12:30-12:45

The Calliope Project and the Proposal of a Stress-Informed Approach for Upper-Limb Prosthesis Design

Speaker

Lorenzo Romanelli

12:45