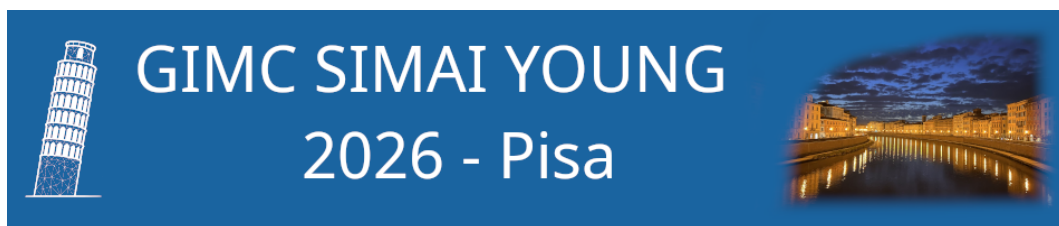


## **Session Program**

**3-5 Jun 2026**



## **GIMC SIMAI Young 2026**

### **MS10 - Data Assimilation and Uncertainty Quantification for Complex Flows**

Pisa

# Friday 5 June

14:00

## MS10 - Data Assimilation and Uncertainty Quantification for Complex Flows

Session | Location: Pisa

14:00-14:15

### Scale-Adaptive Simulation with Adaptive Mesh Refinement for a digital twin framework

**Speaker**

Pietro Tavazzi

14:15-14:30

### Coupled flow-mechanics for Uncertainty Quantification and Parameter estimation in Subsurface Resource Exploitation

**Speaker**

Claudia Zoccarato

14:30-14:45

### Data-Driven Correction of RANS Models for Urban Flow Prediction via Machine Learning and Data Assimilation

**Speaker**

Aurora Ursetto

14:45-15:00

### A bi-fidelity sparse-grid interpolation for Uncertainty Quantification and Sensitivity Analysis of complex flows

**Speaker**

Filippo Fruzza

15:00-15:15

### Uncertainty Quantification of High-Order Spectral Methods for Extreme Wave Prediction

**Speaker**

Andrea Giorgi

15:30