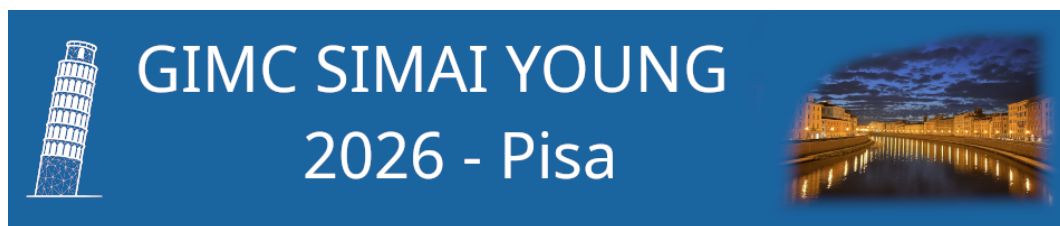


## **Session Program**

**3-5 Jun 2026**



## **GIMC SIMAI Young 2026**

### **MS20 - Synchronization Dynamics, Collective Behaviors and Nonlinear Mechanics**

Pisa

# Friday 5 June

11:15

## MS20 - Synchronization Dynamics, Collective Behaviors and Nonlinear Mechanics

Session | Location: Pisa

**11:15-11:30** **Nonlinear Pulse Propagation in Arrays of Bistable Tensegrity Prisms**

**Speaker**

Rana Nazifi Charandabi

**11:30-11:45**

**Reduced-order representations of friction-induced nonlinear dynamics in multi-degree-of-freedom systems**

**Speaker**

Giancarlo Santamato

**11:45-12:00**

**Coupling flutter instability and electromagnetic interactions in a “virtual” microrobotics experiment**

**Speaker**

Andrea Pastore

**12:15-12:30**

**Thermo-Mechanical Instabilities in Snow Slabs Avalanches: An Ab-Initio Quantized Fracture Thermo-Mechanics (QFTM) Approach**

**Speaker**

Claudia Binetti

**12:30-12:45**

**Inelastic effective properties of bone-like tissue via Asymptotic Homogenization**

**Speaker**

Alessandro Giammarini

13:00