

MINI-SYMPOSIUM AIMETA 2019

Proposed by GADeS, Gruppo Aimeta di Dinamica e Stabilità

Dynamics and Stability of Mechanical Systems

Dinamica e Stabilità di Sistemi Meccanici

Organizers:

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The mini-symposium on “Dynamics and Stability of Mechanical Systems” is promoted by the AIMETA group “Dinamica e Stabilità - GADeS” in the spirit of the GADeS aims, that is the promotion of the scientific interaction between researchers from different backgrounds, operating in the fields of Applied Mathematics and Dynamical Systems, Applied Mechanics and Machine Dynamics, Solid and Structural Dynamics, independently from the scientific sector, thus in coherence with the AIMETA's statutory spirit. Moreover, the integration of researchers, who are studying particular and/or complementary problems, such as Identification and Control problems, appears very important since it can enlarge the range of interests of the Group.

The proposed mini-symposium offers multi-disciplinary topics; a non-exhaustive list includes:

- Linear and nonlinear dynamics of mechanical systems
- Stability of mechanical systems
- Chaotic systems and complexity
- Fluid-structure interactions
- Buckling and post-buckling of structures
- Non-smooth systems
- Inverse problems, identification, optimization, model updating
- Nonlinear time series analysis
- Active, passive, semi-active and hybrid control
- Vibration analysis, control and isolation
- Discretization, meshless, sub-structuring and modal reduction methods
- Friction-induced vibrations
- Materials with memory: mechanical & thermodynamic behavior
- Bio-inspired materials and devices
- Piezoelectric systems
- Micro e Nano dynamical systems

Award for the best young presentation during the Mini-Symposium GADeS

In order to stimulate the active presence of young people, GADeS has decided to reward the best presentation of a young researcher under 35 (at the start date of the conference). The interested ones should state their age.

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