Call for Papers

Control theory has been used to develop "smart" devices for many engineering applications in the form of passive, active, semi-active and hybrid devices. Active and semi-active vehicle suspension systems, controllable systems to mitigate seismic-induced vibrations in buildings and semi-active control systems to reduce wind-induced vibrations in cable-stayed bridges are some examples of acknowledged engineering applications in which vibration control technology. This special session provides a dedicated forum for the discussion of modelling, simulation, design and application of smart devices for vibration control of mechanical and structural systems. Particular emphasis will be given to advanced control systems, innovative control laws and intelligent actuators.

This special session is devoted to all topics related with vibration control, including (but not limited to) the following subjects:

- Structural Dynamics
- Buildings, Bridges and Infrastructures
- Mechanical, Mechatronics and Electro-Mechanical Systems
- Wind, Earthquake and Offshore Environmental Responses
- Methodologies and Algorithmic Techniques for Vibration Control
- Passive, Semi-Active and Active Damping or Control
- Theoretical Validation through Experimentation
- Experimental Tests and Structural Health Monitoring
- Case Studies and Case Histories