

MS 6-1 Nonlinear Dynamics in Mechanical and Structural Systems

Organizers:

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Description :

The mini-symposium will be focused on recent developments in non-linear vibrations of mechanical systems and related subjects. Topics to be covered by this mini-symposium include, but are not limited to:

- Nonlinear vibrations and acoustics in engineering design: smart nonlinear structures
- Nonlinear vibrations and acoustics of structural and machine elements
- Nonlinear wave propagation in mechanical systems
- Micro/nano-electro-mechanical nonlinear systems
- Slow-fast nonlinear systems and phenomena
- Energy harvesting using nonlinearity
- Fluid-structure interaction
- Reduced-order modelling of nonlinear systems
- Time- or/and space-periodic nonlinear systems
- Nonlinear modeling of friction and damping
- Vibro-impact processes and analysis
- Experimental methods in nonlinear dynamics
- System identification of structural nonlinearity