



Call For Papers

SYMPOSIUM ON NONLINEAR STRUCTURAL DYNAMICS AND CONTROL

Technical Committee on Multibody Systems, Nonlinear Dynamics and Control

To be held at
**The Seventh ASME International Conference on
Multibody Systems, Nonlinear Dynamics and Control**
within The 2009 ASME International Design Engineering Technical Conferences

**San Diego Convention Center, San Diego, CA
Aug 30 – Sept 2, 2009**

Papers are welcome for research involving investigations of nonlinear phenomena in structural dynamics and control, including characterizations of experimentally observed nonlinear structural dynamical behaviours and their control.

In particular, the contributions may fall within all areas related to theoretical, experimental, symbolic, and computational aspects of nonlinear dynamics, vibrations, and control of structural systems.

Potential topics may include, but are not limited to:

- Recent trends in geometrically exact modelling of distributed-parameter systems and related phenomena, more specifically, of beams, arches, cables, plates and shells and their assemblages
- Effects of nonlinear material constitutive laws on dynamics and bifurcations
- Instabilities (parametric, high-codimension multi-mode, mixed resonances,...)
- Bifurcations under various types of dynamic loadings
- Approximate analytical techniques for steady-state and non-stationary responses
- Control of nonlinear and chaotic oscillations, including resonance-cancellation techniques
- Experimental studies of nonlinear coupling and its application to control.

Please use the ASME web submittal process to upload the manuscripts. All successfully reviewed manuscripts will be published in the conference proceedings. For more information, contact:

Prof. Walter Lacarbonara

Dept. of Structural and Geotechnical Eng.
Sapienza University of Rome
Vie Eudossiana 18-00184
Rome, ITALY
Tel: +39 06 44585 293
e-mail: walter.lacarbonara@uniroma1.it

Prof. Hiroshi Yabuno

Faculty of Science and Technology.
Keio University
3-14-1 Hiyoshi Yokohama,
223-8522 JAPAN
Tel: +81 45 566 1823
e-mail: yabuno@mech.keio.ac.jp

Prof. Fabrizio Vestroni

Dept. of Structural and Geotechnical Eng.
Sapienza University of Rome
Vie Eudossiana 18-00184
Rome, ITALY
Tel: +39 06 44585 195
e-mail: vestroni@uniroma1.it