



Preface

The third International Conference on Structural Nonlinear Dynamics and Diagnosis CSNDD 2016 gathered scientists working in nonlinear dynamics and control in different branches of mechanics, applied mathematics and advanced physics to discuss and exchange ideas in theoretical, numerical and experimental techniques nonlinear dynamics related problems. Focuses were directed toward diverse topics, ranging from dynamical systems theory to different mechanical, physical and engineering applications. The CSNDD 2016 covered a large field of nonlinear dynamics, including:

- Deterministic and stochastic dynamics
- Energy harvesting
- Mechanical, aeronautic, aerospace and naval structures
- Stability of rotating machines
- Model reduction methods dedicated to low/high frequency system dynamics
- Nonlinear PDEs and their dynamics
- Nonlinear dynamics in spatially extended systems
- Structural health monitoring and damage detection
- Multiple time scale dynamical systems
- Optimization and reliability in structural vibrations
- Nonlinear dynamics of flexible structures
- Dynamics of non-smooth systems
- Rogue waves, solitons, and supercontinuum in nonlinear fiber optics

The meeting has attracted more than 200 delegates from 35 countries. Ten keynote lectures were invited and 24 mini-symposia organized by leading experts in nonlinear dynamics. More than 120 oral presentations and 60 posters were scheduled. Sixty papers are published in MATEC Web of Conferences.

The organizing committee thanks the keynote lecturers, the invited speakers, the mini-symposia organizers as well as reviewers for their precious help in maintaining a high-quality scientific program of the conference.

Mohamed Belhaq
CSNDD 2016 Chair

September 30, 2016
University Hassan II - Casablanca





International Conference
on Structural Nonlinear Dynamics and Diagnosis
Marrakech, May 23-25, 2016

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