

Preface

The 1st International Conference on Structural Nonlinear Dynamics and Diagnosis (CSNDD 2012) was held in Marrakech, Morocco, April 30-May 2 and was organized by the Group of Nonlinear Dynamic, Hassan II University-Casablanca. The CSNDD 2012 has attracted a representative international scientific community in nonlinear dynamics, diagnosis and control. More than 150 papers from 26 countries were submitted and nearly 120 were accepted for presentation. About 67 papers were accepted for publication in MATEC Web of Conferences journal and 9 papers were appeared in ESAIM Proceeding. Thirteen mini-symposia were organized by leading experts in the field, who contributed to attract top-quality scientists.

Following the success of the 1st version of the conference (CSNDD 12) and the positive feedback received from participants, the Nonlinear Dynamic Group of the Hassan II University-Casablanca was proud to organize the 2nd version of the conference (CSNDD 14) which took place in the nice city of Agadir (May 19-21, 2014) located south Morocco on the Atlantic Ocean.

The 2nd CSNDD 14 attracted scientists from different branches of applied mathematics, advanced physics and mechanics working in nonlinear dynamics and control. Focuses were directed toward diverse topics, ranging from dynamical systems theory to different physical and engineering applications. The CSNDD 2014 covered a large field of nonlinear dynamics, including structural health monitoring, diagnosis and damage detection, fast slow dynamics, multi-scale dynamics, advances on nonlinear PDEs and their dynamics, experimental methods, active vibration control and smart structures, vibro-impact dynamic, nonlinear dynamics in MEMS/NEMS/AFM, energy harvesting materials and structures, active vibration control and smart structures, passive control of structures via nonlinear energy sinks, time-delayed feedback control, deterministic and stochastic dynamics and control, nonlinear thermal instability and nonlinear phenomena in advanced physics.

The 2nd CSNDD 2014 has accomplished its goal by attracting more than 200 papers from 30 countries and nearly 150 were accepted for presentation. Twelve Keynote lecturers have been invited and fourteen mini-symposia were organized by leading experts in the field, who contributed to attract top-quality scientists. After a peer review process, about 66 papers have been accepted for publication in MATEC Web of Conferences journal.

I would like to thank all the Keynote lecturers, the invited speakers, the mini-symposia organizers, reviewers as well as the local and international organizing committee for their precious help in maintaining high standards of the Conference Technical Program. At the same time, I would like to thank all participants, PhD students, colleagues and friends who meaningfully helped with the organization.

I hope that all participants have enjoyed a scientific stimulating and socially nice conference!

Mohamed Belhaq
CSNDD 2014 Chair

