

Foreword

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This Special Issue of Acta Mechanica Sinica (AMS) publishes a few papers selected and recommended by The Scientific Committee, The 10th International Conference on Dynamical Systems - Theory and Applications, which was held in Łódź, Poland, between December 7–10, 2009.

The conference hosted 120 participants from 26 countries all over the world. Among them are numerous groups of outstanding scientists and engineers, who deal with widely understood problems of dynamics met in both engineering and daily life. The participants enjoyed sharing their recent achievements and fruitful experiences of researches in a discipline of dynamical systems by delivering very interesting talks. Such a successful conference could not be possible without the kind supports from The Polish Society of Theoretical and Applied Mechanics, The Technical Committee of Nonlinear Oscillation of IFToMM, and The Department of Education at the Łódź City Hall, as well as great ef-

forts of the staff of The Department of Automation and Biomechanics, Technical University of Łódź, Poland.

This Special Issue puts an emphasis on non-linear phenomena exhibited by both lumped and continuous mechanical systems, on novel theoretical and numerical solutions to objects governed by either ODEs or PDEs, as well as on the interdisciplinary research oriented on interaction of mechanics, physics and applied mathematics. I do hope that the results presented and briefly described will stimulate a progress of different branches of nonlinear dynamical systems. I would like to thank all contributors to this special issue and the referees. In addition, my particular thanks are devoted to Dr. Pawel Olejnik for his help in gathering and handling of all papers finally published in this Special Issue. Finally, I express my sincere thanks to the AMS Editor-in-Chief and the AMS Editorial Staff for their help during a whole process of the project.

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