

# Preface

The Proceedings of the XIII-th International Symposium „ACOUSTICS & VIBRATION OF MECHANICAL STRUCTURES” – AVMS-2015, contains selected papers contributed to the Symposium held on 28-29<sup>th</sup> May 2015 in Timișoara, Romania.

This book is organised on 6 Chapters covering different topics of interest for AVMS-2015, such as: Noise and vibration control; Noise and vibration generation and propagation; Effects of noise and vibration; Condition monitoring and vibration testing; Nonlinear acoustics and vibration; Analytical, numerical and experimental techniques for noise and vibration; Modeling, prediction and simulations of noise and vibration; Environmental and occupational noise and vibration; Noise and vibration attenuators; Regulations requirements and quality assurance systems related to acoustics/vibration; Biomechanics and bioacoustics. The structure of the book is as follows:

Analytical Approaches to Nonlinear Problems (6 papers)

Environmental and Occupational Noise (10 papers)

Structural Vibration (13 papers)

Vibration Problems in Industrial Processes (10 papers)

Biomechanics (8 papers)

Measurements in Vibration Problems (6 papers)

All papers have passed the peer-review process performed by the members of the International Scientific Committee. We are very grateful to them for spending their valuable time to review the papers.

We would like to express our sincere appreciation to keynote speakers and all contributors of the presented papers for sharing their knowledge and experiences with all the participants. We are also expressing our sincere thanks to the members of the International Scientific Committee and also to the members of the Organizing Committee for ensuring the success of this Symposium which would not have been possible without their support.

Finally, special thanks are given to Trans Tech Publications for producing this volume.

Editors,

Prof.dr.ing. Nicolae HERIȘANU

Prof.dr. Vasile MARINCA

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