



**PREFACE**  
**TO THE FIRST VOLUME ON**  
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This volume is the first one that belongs to the journal “Romanian Journal of Mechanics” devoted to relatively new and very interesting research areas in mechanics. This issue represents examples of mathematical, engineering and technical approaches usually employed in various fields of mechanics, such as structural mechanics, waves and acoustics and multibody dynamics. History of mechanics constitutes also a field of research involving diverse disciplines from mathematics to mechanics.

Recent studies on research in mechanics show that a proper modelling of mechanical systems allows not only a correct understanding of the mechanical behavior, but also the improving their functionality and the performance of technological advances such as controllers, reduction of vibrations devices, micro/nanomechanics, medical and biological systems, and microscale energy transfer.

Analytical, experimental and numerical analysis should be of significance to the progress of mechanics, involving beneficial effects on describing the structural behavior and also the control strategy which can be exploited in the design process.

The editors are grateful to the authors and the reviewers for their cooperation and to the journal publisher for giving them the opportunity to publish these contributions together.

**Editors**