



**PREFACE**  
**TO THE SECOND VOLUME ON**  
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The second volume of the journal “Romanian Journal of Mechanics” is devoted to up-and-coming tendencies in mechanics and biomechanics, driven by the need to perform predictions of the mechanical behavior of systems and materials while avoiding extensive and costly experimentation. In recent years, a lot of attention has been paid to the applications of composites and metamaterials with multiple excellent properties that any of traditional materials.

Common thread of this issue consists in modelling of materials and mechanical systems not only for a correct understanding of their mechanical behavior, but also for improving their functionality and performance of technological advances such as controllers, reduction of vibrations devices, micro/nanomechanics, medical and biological systems, and microscale energy transfer.

We are grateful to reviewers for the time and effort they spent evaluating the papers. We believe that this issue will be a valuable contribution to the field of vibration control, fibrous composites and acoustic metamaterials, and a source for further development and scientific discussion within computational aspects in mechanics and biomechanics.

**Editors**