

Editor in Chief Letter

During the last quarter of the 20th century, computational methods and approaches have become an integral part for characterizing, predicting the behavior and simulating physical phenomena and engineering systems. This appears to be a continuing and accelerating trend in the times ahead. The experimental methods are expensive and could not possibly cope with the industrial demands for the reduction in design cycle time and expenses. Furthermore, physical experiments are not broadly conclusive while there is the possibility of being able to study a complete range of physical and temporal scales with the computer simulations. That is, one could study physical phenomena that last only a picosecond, or could move back in time and identify the evolution of interesting physical events in details which would be unimaginable to obtain such data from the outcome of physical experimentations.

Journal of Computational and Applied Research in Mechanical Engineering (JCARME) is a fast growing international, multi- and inter-disciplinary media in the broad field of mechanical engineering for the rapid publications of scientific research works. It aims to provide a venue for both the academia and industry to report original and innovative research outcomes. The journal welcomes innovative computational methods and applications to achieve a major breakthrough, practical improvements, and bold new research directions within a wide range of mechanical engineering disciplines. Special attention is paid to applied research in the above mentioned areas. Authors are welcomed to submit their manuscript which will be thoroughly refereed by international reviewers. It is the journal's intention to finalize the review process and reach a final decision in a matter of four months.

I hope JCARME serves its role in the scientific circles and provides a proper, reliable and useful source of information, data and analysis and helps to advance the computational methods and processes.