

PREFACE: SPECIAL ISSUE ON RECENT ADVANCES IN NONLINEAR DYNAMICS AND MODELLING

Over the last few decades, it has been well established in both natural and engineering systems that nonlinearity is one of the dominant mechanisms for the generation of complexity. Examples include chaotic dynamics, biological behaviour, electronic circuits, social interaction networks, etc. Therefore, the field of nonlinear dynamics experienced a very quick and intense development. This special issue includes recent results related to the modelling of real-world life, engineering and applied-science phenomena by non-linear dynamical systems as well as the associated mathematical modelling, solutions and simulation tools.

Authors from different research areas in applied science have mainly contributed the collection of papers herein. They address and present some scientific advances with emphasis on newly developed techniques that pertain to further progress in modelling and computation of some nonlinear models as well as numerical simulations.

We would like to express our gratitude to all authors and referees for their critical contributions and valuable assistance to this issue. We hope that the objectives of the issue are fulfilled.

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