Special Issue

Nonlinear Dynamics and Complexity

Message from the Guest Editors

This Special Issue is dedicated to mathematical and numerical modeling of various processes in mechanics, biomechanics, biology, chemistry, physics, and other fields. Topics include mathematical models, differential equations systems solutions to the stability problem. and nonlinear dynamics problems of beam-plate-shell structures, in the form of both experimental studies and theoretical developments, taking into account deformation and fracture and contact interaction of structures. This issue is also devoted to the consideration and construction of mathematical models for nonlinear oscillations of biological structures, and physical, chemical, and mechanical processes, as well as the construction and substantiation of nonlinear analysis methods of micro- and nanomaterials. The issue will undoubtedly serve as a valuable guide for researchers interested in participating in this interdisciplinary field. In addition, it will be useful for encouraging further experimental and theoretical research in the fields of numerical modeling mentioned above, which use mathematical and computer modeling.

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Message from the Editor-in-Chief

Axioms is dedicated to the foundations (structure and axiomatic basis, in particular) of mathematical theories, not only from a crisp or strictly classical sense, but also from a fuzzy and generalized sense. This includes the more innovative current scientific trends, devoted to discover and solve new challenging problems. The prime goal of Axioms is to publish first-class, original research articles under an open access policy with minimal fees for the authors. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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