Special Issue

Recent Advances in Dynamic Phenomena

Message from the Guest Editor

Dynamic phenomena have been observed in physical, chemical, and biological systems in any field, due to the influences of their inertial forces, as well as other various systems' characteristics. Additionally, interesting dynamics are observed in mechanical and electronic systems, which are used in various applications and systems, such as in robotics, aircrafts, and vehicles. This Special Issue aims to highlight the recent advances in the study of dynamic phenomena that occur from the smallest scale to the largest, with examples of mechanism dynamics of any kind, including those that occur at the cellular level in biological systems, in the water or atmosphere of the earth, as well as those in mechanical and electronic systems. Submissions are welcomed from the following fields:

- Aerodynamics
- Biological systems and networks
- Cell dynamics
- Climate dynamics
- Dynamic cycles of birds and animals
- Dynamics in mechanics
- Fluid dynamics
- Gas dynamics
- Nonlinear dynamics and hhaos
- Nuclear dynamics
- Quantum mechanics and electrodynamics
- Terrestrial dynamics

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2023)

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About the Journal

Message from the Editor-in-Chief

Dynamics aims to cover the research needs of scholars working mainly with physical and chemical processes and thus focuses on the study of systems in these two fields, presenting both theoretical and experimental results. Of particular interest are papers detailing new results concerning dynamics theory regarding differential equations (ordinary differential equations, stochastic differential equations, fractional order systems, nonlinear systems, and chaos) and their discrete analogs, which consist of the mathematical base of the presented physical and chemical models. *Dynamics* will also publish papers concerning computational results and applications of physical and chemical processes in biology, engineering, robotics, and the other sciences, as well as papers in other areas of mathematics that have direct bearing on the dynamics of these kinds of processes.

Editor-in-Chief

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APC discount vouchers, optional signed peer review, and reviewer names published annually in the journal.