Special Issue

Recent Advances in Dynamic Phenomena—3rd Edition

Message from the Guest Editor

Dynamic phenomena are at the heart of the natural and engineered world, governing the behavior of systems across scales—from the microscopic interactions within cells to the vast, complex motions of planetary atmospheres. These phenomena, characterized by their intricate and often nonlinear behaviors, are driven by a delicate balance of forces, energy exchanges, and system-specific properties. Their study not only deepens our understanding of the fundamental principles of nature but also paves the way for groundbreaking innovations in science and technology.

The third edition seeks to highlight the latest developments in this vibrant and interdisciplinary field. Building on the results of previous editions, this issue aims to showcase cutting-edge research that explores dynamic processes in diverse systems, including physical, chemical, biological, mechanical, and electronic domains. From the dynamics of cellular mechanisms and fluid flows to the behavior of complex mechanical and electronic systems, this edition will provide a platform for sharing novel insights, methodologies, and applications.

Guest Editor

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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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