

Special Issue

Advances in Chaos Theory and Dynamical Systems

Message from the Guest Editors

Many problems in life and sciences can be described by dynamical systems. They can model a vast range of phenomena in nature, society and sciences and can bring together different fields in maths to support interdisciplinary approaches to understand the world around us. Chaos theory started developing in the early 1960s by E. Lorenz and focuses on the study of unpredictable behaviour in dynamical systems governed by deterministic laws. The goal is to analyze and better understand processes in different fields in science or applications. Dynamical systems and chaos theory can help develop common approaches to tackle problems that might look unrelated at first sight. Combined can offer unique and powerful theoretical and numerical approaches to study those problems and better understand them, providing us with the opportunity to improve our understanding of nature, our lives and well-being. This Special Issue welcomes original research articles, short communications, and review papers on the forefront of advances in chaos theory and dynamical systems. Potential topics include theoretical and numerical studies as well as analyses of applied models related to a vast range of fields.

Guest Editors

Dr. Chris G. Antonopoulos

School of Mathematics, Statistics and Actuarial Science (SMSAS),
University of Essex, Wivenhoe Park, Colchester CO4 3SQ, UK

Dr. Thanos Manos

Department of Mathematics, Laboratoire de Physique Théorique et
Modélisation, CY Cergy Paris Université, CNRS, UMR 8089, CEDEX,
95302 Cergy-Pontoise, France

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

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