# Application of Mathematical Method and Models in Dynamic System

Guest Editor:

**Dr. Cristian Lazureanu**
Department of Mathematics, Politehnica University of Timisoara, 300006 Timişoara, Romania

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## Message from the Guest Editor

The most observed phenomena in scientific investigation and in everyday life are dynamic phenomena. The list of these phenomena is rich, including life systems, physical systems, or social systems, encompassing population growth, ecological decay, epidemics of disease, the motion of a system of particles, the behavior of an economic structure, etc. Some such phenomena are easy to understand, but others require a proper mathematical model, usually represented in terms of either differential or difference equations. This includes continuous-time dynamical systems, piecewise dynamical systems, discrete-time dynamical systems, time-delay dynamical systems, fractional order dynamical systems, and fast–slow dynamical systems, among others.

The aim of this Special issue is to establish new mathematical models and study their behavior and properties, or those of existing dynamical systems using known or new methods.

# Special Issue

## Editor-in-Chief

**Prof. Dr. Francisco Chiclana**
School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

## 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.

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