

Special Issue

Advances in Differential Dynamical Systems with Applications to Economics and Biology, 2nd Edition

Message from the Guest Editors

Nowadays, Mathematical modeling is a very useful tool to study economic and biological processes, where the delay between cause and effect is very often taken into consideration. Sometimes, it is more practical to add a distributed time delay as it illustrates the situation where delays arise in certain ranges of values for certain related probability distributions, taking into account the variables' entire historical behavior. Moreover, fractional derivatives may reflect the memory and the inherited properties of different systems. In terms of realistic conditions, stochastic perturbation framed by a stochastic differential delay system is used to explain the ambiguity about the context in which the system operates. This Special Issue focuses on the dynamical analysis of mathematical models in different areas, especially arising from economy and biology and innovative mathematical techniques for their applications. Submissions that involve interdisciplinary collaborations are welcome. Numerical simulations can be used to emphasize the theoretical findings. Finally, an economic or biological interpretation of the obtained results is desired.

Guest Editors

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Deadline for manuscript submissions

closed (31 August 2024)



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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.

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