Special Issue

Mathematical Modeling for Population Dynamics and Evolutionary Dynamics

Message from the Guest Editor

Ecosystem functioning and its persistence significantly depend on population and evolutionary dynamics. Mathematical modeling allows us to investigate these processes, taking into account factors such as fertility rates, mortality rates, migration patterns, interspecies interaction, natural selection, and genetic mutation, and make predictions about how populations will change in the future. There has been an increasing focus on using mathematical models to understand the impacts of human activities, such as habitat destruction and climate change, on population dynamics. In addition, there has been a trend towards the development of more sophisticated modeling techniques that take into account the complexity of real-world systems, including interspecific interactions and the influence of the environment. This Special Issue aims to present achievements in the theory and applications of mathematical models in various fields of Population Dynamics and Evolutionary Dynamics.

Guest Editor

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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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