Special Issue

Dynamics of Predator-Prey and Infectious Disease Models

Message from the Guest Editors

The merger of the two disciplines of ecology, which studies population dynamics, and epidemiology, which examines the effects of disease on populations, is known as ecological epidemiology. More and more eco-epidemiological studies have found that infectious diseases regulate the host population and affect other species interacting with the host. The timely conduct of eco-epidemiological research is conducive to finding out the pattern of ecological change that leads to the occurrence of diseases, preventing disease epidemics more proactively, and preventing diseases from occurring more scientifically. For this special issue, we will bring together scholars from diverse backgrounds to contribute original researches presenting recent advances in the study of differential equations in population ecology, infectious diseases, and other relevant areas in life sciences. All submitted manuscripts will be carefully reviewed and receive timely feedback.

Guest Editors

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MDPI

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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