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Symmetry Applications in Uncertain Differential Equations

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Message from the Guest Editors

An uncertain differential equation is a type of differential equation involving uncertain processes. Nowadays, the study of uncertain differential equations is in a period of rapid development, and it involves fields including finance, optimal control, game theory, accelerated degradation test, birth rate, chemical reaction, crude oil price, drug metabolism, electric circuit, epidemic spread, gas futures price, heat conduction, liquid seepage, population, rumor spread, software reliability, spring vibration, and string vibration. The aim of this Special Issue is to attract leading researchers in these areas in order to include new high-quality results involving their symmetry properties, both from a theoretical and an applied point of view.

The topics of interest for this Special Issue include but are not limited to:

1. uncertain differential equation;
2. uncertain statistics;
3. uncertain programming;
4. uncertain calculus;
5. uncertain finance.

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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