



## Unsolved Problems in Stability and Optimal Control Theory of Stochastic Systems

Guest Editor:

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### Message from the Guest Editor

Dear Colleagues,

A host of unsolved mathematics problems have been the topic of varied research (see [1–8]), some for over 40 years, others just in the last few months. Despite the broad range of publications in various journals over the years, and the various presentations in international conferences, no solutions have emerged for any of these problems to date.

The aim of this Special Issue of *Symmetry* on “Unsolved Problems in Stability and Optimal Control Theory of Stochastic Systems” is to collect and present contributions considering unsolved problems in mathematics. In particular, studies in the areas of, but not limited to, Euclidean geometries, graph theory, group theory, model theory, number theory, set theory, Ramsey theory, dynamical systems, and symmetries of partial differential equations are of interest.





# symmetry



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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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