

# Special Issue

## Symmetry, Stability and Sustainability Issues Concerning Derivations

### Message from the Guest Editors

This Special Issue aims to focus on the derivations, various generalized notions of derivation, and the problem of their stability in the Ulam sense. Potential topics include properties and applications of different types of derivations (in the broad sense of the notion), including Lie derivation, Jordan derivations, and various characterizations of derivations by means of functional equations. We also invite contributions related to the concept of Ulam type stability and concerning subjects such as approximate derivations, asymptotically approximate generalized derivations, and various stability, hyperstability, and superstability issues connected with derivations. The concept of symmetry often plays an important role in the study of derivations, as can be seen, for example, in the case of biderivations and more generally  $n$ -derivations defined on various algebraic structures. Moreover, in the stability results, the distances between the approximate solution and the exact solution of the considered equations are mainly measured by functions that are symmetric in some ways.

### Guest Editors

Dr. Zbigniew Lesniak

Prof. Dr. Janusz Brzdęk

Prof. Dr. Ajda Fosner

### Deadline for manuscript submissions

closed (31 October 2022)



## Symmetry

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## About the Journal

### 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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### Editor-in-Chief

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