



## Symmetry in Differential - Difference Equations: Theory, Methods, Applications and Inverse Problem in Diffusion Equation II

Guest Editor:

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Deadline for manuscript  
submissions:

**closed (31 May 2024)**

### Message from the Guest Editor

Dear Colleagues,

Difference Equations in the symmetry domain have been applied in many branches of engineering sciences; for example, heat conduction, reaction diffusion, pollutant detection, crack identification, geophysical prospecting and electromagnetic theory.

Papers that employ the symmetry or asymmetry concept in experimental, theoretical and computational investigations on combustion are welcomed. Papers related to the development and validation of reaction kinetics, reduction in reaction mechanisms and modeling of combustion systems are also welcome. We would particularly like to encourage papers on the inverse problem of identifying the unknown parameter in radially (spherically) symmetric difference equations and fractional diffusion equations.

Prof. Dr. Fan Yang

*Guest Editor*





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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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