

## Special Issue

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

### Message from the Guest Editor

Difference equations on 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 welcome. We would particularly like to encourage papers on the inverse problem of identifying the unknown parameter on radially (spherically) symmetric difference equations and fractional diffusion equations.

### Guest Editor

Prof. Dr. Fan Yang

Department of Applied Mathematics, School of Science, Lanzhou University of Technology, Lanzhou 730050, China

### Deadline for manuscript submissions

closed (31 March 2023)



## Symmetry

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*Symmetry*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[symmetry@mdpi.com](mailto:symmetry@mdpi.com)

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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

Prof. Dr. Sergei Odintsov

1. ICREA, 08010 Barcelona, Spain

2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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