## Special Issue

# Fuzzy Covering Rough Set and Its Applications

## Message from the Guest Editors

The fuzzy covering rough set brings together the main advantages of covering rough sets and fuzzy set theory. Among them, constructing a neighborhood operator that satisfies a general binary relation is a topic to be explored. Neighborhood operators can satisfy selfinverse relations, self-inverse-symmetric relations, etc. Various types of neighborhood operators can be used to construct different fuzzy covering rough set models. These fuzzy covering rough sets should have to satisfy the inclusion relationship between lower and upper approximations. Additionally, these fuzzy covering rough set models can be used for a range of applications, such as attribute reduction, multi-attribute decision making, prediction, multi-granularity decision making, three-way decisions, etc. These will all be important directions for developing fuzzy covering rough set applications. The aim of this Special Issue is to encourage the publication of original papers related to the theoretical foundations, computational methods, and applications of the fuzzy covering rough set.

## **Guest Editors**

Dr. Kai Zhang

Dr. Bin Yang

Dr. Jingqian Wang

## Deadline for manuscript submissions

closed (31 August 2024)



# **Symmetry**

an Open Access Journal by MDPI

Impact Factor 2.2 CiteScore 5.3



mdpi.com/si/185922

Symmetry
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
symmetry@mdpi.com

mdpi.com/journal/ symmetry





# **Symmetry**

an Open Access Journal by MDPI

Impact Factor 2.2 CiteScore 5.3



## **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.

### **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

## **Author Benefits**

## **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

## **High Visibility:**

indexed within SCIE (Web of Science), Scopus, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

#### Journal Rank:

JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q1 (General Mathematics)

