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Symmetry in Fractional Calculus and Inequalities

Guest Editor:

Prof. Dr. Hüseyin Budak
Department of Mathematics, Faculty of Science and Arts, Düzce University, Düzce, Turkey

Deadline for manuscript submissions:
closed (15 July 2022)

Message from the Guest Editor

In recent years, the investigation with fractional calculus has broken into the field of mathematical analysis, both at the theoretical level and at the level of its applications. Fractional calculus has become an important tool for modeling analysis and has played a very important role in various fields. There are many definitions of fractional integrals and derivatives in the literature, and many important inequalities have been obtained for these definitions.

The purpose of this Special Issue is to publish original and high-quality papers covering the latest advances in the theory of Fractional calculus with symmetry as well as generalizations of fractional important inequalities.

The issue of the subject will be focused but not limited to:

- Fractional integral inequalities;
- Symmetry in fractional operators and models;
- q-inequalities via fractional calculus;
- Fractional differential equations and inclusions;
- Symmetry on fractal and fractional differential operators;
- Discrete fractional equations;
- Fractional Calculus- new fractional definitions, their properties and applications;
- Fractional (p, q)-calculus

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Editor-in-Chief

Prof. Dr. Sergei D. Odintsov
1. Institució Catalana de Recerca i Estudis Avançats (ICREA), Passeig Luis Companys, 23, 08010 Barcelona, Spain
2. Institute of Space Sciences (ICE-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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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Contact Us

Symmetry Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/symmetry
symmetry@mdpi.com
𝕏@Symmetry_MDPI