Special Issue

Symmetry in Calculus of Variations and Control Theory

Message from the Guest Editor

The study of the symmetry of solutions to minimization problems in the Calculus of Variations or to Optimal Control Problems has a long tradition.

This is due to the fact that knowing in advance that solutions to these problems are symmetric (e.g., radially symmetric) is of great importance from both a theoretical and a computational point of view. Namely, symmetry can be used as a first step in uniqueness results, or to reduce the computational complexity of the numerical approximation of the problem.

This Special Issue invites contributions on various aspects of symmetry for these kinds of problems, including but not limited to radial symmetry of solutions, symmetry with respect to a hyperplane, the moving planes method, symmetrization methods, and rearrangement techniques.

Guest Editor

Prof. Graziano Crasta

Department of Mathematics – Sapienza University of Rome, Rome, Italy

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

mdpi.com/journal/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.

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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