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# Symmetry in Geometrical Physics

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## Message from the Guest Editor

Dear Colleagues,

In recent years, rapid developments have taken place in nonlocal-in-time theories characterized by the occurrence of higher-order derivatives. Time non-locality arises in a large number of physical phenomena including classical mechanics, dissipative dynamics, the self-diffusion process, geometrical physics, discrete quantum mechanics, quantum field theory, and the theory of parabolic and hyperbolic differential equations, among others. Nevertheless, after a large number of theoretical studies, it was observed that higher-order derivatives hold a number of generic outcomes, and they constitute an indispensable mathematical tool nowadays in theoretical physics and sciences, e.g., in Abraham–Lorentz electrodynamics theory, which describes the equation of motion for charged particles taking into account radiative effects...

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## Editor-in-Chief

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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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