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Long-Range and Symmetry Behaviours and Interactions—Theory and Applications

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Message from the Guest Editors

Several problems in different branches of knowledge such as in physics, biology, engineering, finance, economy, and socioeconomic networks may involve systems with longrange behaviours and interactions.

This ubiquity in different fields alone would itself justify the need for a better general and interdisciplinary understanding of the real phenomena and mathematical problems raised by long-range interacting systems. The relationship between symmetries and the effective theories of long-range behaviours and models is also relevant.

Indeed, there is a great richness related to the dynamics of long-range and fractional behaviours, and their description may be related (but is not limited) to fractional mathematical models that can capture fractional behaviours.

In this context, at present, there are still many unsolved problems, and new theoretical developments and applications are needed in order to describe more accurately systems with long-range behaviours and interactions.

Specialsue



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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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