



Complex Systems and Its Applications

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Message from the Guest Editor

Dear colleagues,

Symmetry has been found ubiquitously in nature. Symmetric features of mathematical and physical systems are of great importance for the understanding of the behaviour of the systems themselves. The role of symmetry has also been proven fundamental in other different disciplines, such as biology, chemistry, and psychology. More in general, in complex systems, symmetric properties assume even more relevance due to the difficulty, not to say impossibility, in getting a complete, mathematical description of the phenomena involved.

For this Special issue, we invite authors to submit their works in which symmetry is an essential factor for the description, study and analysis of complex systems in general or for a specific instance. Works from every field are welcome, with special attention to biological, social and psychological applications. In particular, the following keywords should be considered:

Symmetry and complex systems;

Symmetries in biological systems;

Symmetries in society;

Symmetries in human behaviour;

Symmetry, complexity and criticality.





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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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