

Special Issue

Symmetry Applied in Special Engineering II

Message from the Guest Editors

Special engineering is reserved for emergencies. The situation where an incident occurs is regarded as a failure of the system's symmetry. The causes of a system failure are investigated in the field of material engineering only, not in the field of social sciences. This Special Issue could contain technical articles from two areas: the investigation of emergencies and the treatment of materials for special purposes. The following topics are explored:

- the interplay between regular and chaotic dynamics in final systems, exceeding the limit load up to the collapse;
- the disruption of the local symmetry (fire development, explosion, static collapse, etc.);
- competition between order, failure, and symmetry is possible given the coexistence of different types of asymmetry leading to an emergency and a possible domino effect;
- symmetry in nanosciences (material treatment, e.g., flame retardant treatment of combustible materials, self-extinguishing treatment, enhancement of mechanical resistance, etc.).

Guest Editors

Dr. Chiara Bedon

Dr. Lucia Figuli

Dr. Makovická Osvaldová Linda

Deadline for manuscript submissions

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

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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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