



symmetry

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Symmetry Applied in Special Engineering

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Deadline for manuscript
submissions:
closed (31 December 2021)

Message from the Guest Editors

Dear Colleagues,

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

- 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.),
- the competition between order, failure and symmetry is possible by the coexistence of different types of asymmetry leading to an emergency, 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.)



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Special Issue



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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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