



symmetry

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Recent Advances in Computational and Structural Engineering

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Message from the Guest Editor

Dear Colleagues,

Nowadays, civil and structural engineering is also centred on the assessment of the behaviour of engineering structures through the application of computational methods and the adoption of FE tools. Many research studies have been carried out in the last few decades and plenty of research work has been devoted to the study of details or entire structures through complex computational methods.

This Special Issue in *Symmetry* wants to report critical findings, the advances and the applications in all structural engineering fields and, most of all, cutting-edge methodologies applied to innovative structural typologies.

We solicit contributions covering a wide range of topics, including the following: seismic behaviour of new structures designed with traditional and innovative methodologies; retrofit of existing buildings through experimental techniques and related numerical parametric studies; numerical methods for risk assessment; guidelines for the design of structural details verified through FEM; numerical studies of structures with reliability assessment methods; FEM studies of components or structures with advanced numerical tools.



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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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