

Civil Engineering and Symmetry

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Message from the Guest Editors

The topic of utmost importance in civil engineering is optimal solutions throughout the life cycle of the buildings, roads, bridges and other infrastructure objects. Operational research, management science, optimization methods provide a consistent and applicable groundwork for engineering decision making. Traditionally, decision makers need to take into account not a single criterion, but several different criteria, therefore multi-criteria decision making (MCDM) approaches are usually applied. MCDM methods cover two branches: multi objective decision making (MODM) techniques and multi attribute decision making (MADM) approaches. Articles are welcome on this issue, where solutions in civil engineering that bring economic, social and environmental benefits are offered through a variety of methodologies and tools (e.g., information technologies, optimization methods, operational research and management science, multi-criteria decision-making methods).

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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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