Special Issue

Seismic Design of Steel and Steel/Concrete Composite Structures

Message from the Guest Editors

The seismic design of steel and (steel/concrete) composite structures has recently shown significant progress and momentous advances as a result of the convenience of vigorous methods of computational earthquake engineering, modern approaches of performance-based seismic design, and the production of a very large number of experimental tests. Nevertheless, despite these developments in the seismic design of steel and composite structures, there are many tasks yet to be clarified. This Special Issue shall provide experimental, analytical, and numerical studies on both steel and steel/concrete composite structures subjected to seismic loads and aim to cover the state of the art on both traditional and innovative design methods as well as to present research guidelines for the future. The Special Issue examines the following topics, without being limited to them: performance-based seismic design of steel or composite structures; improvements for earthquake-resistant code provisions; design of seismically isolated steel or composite structures; repair and rehabilitation of steel or composite structures; steel or composite bridges, etc.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

The journal is devoted to academic researchers, working in the main fields of civil engineering, who want to spread their findings in the scientific community. Topics include: solid mechanics, structural and earthquake engineering, environmental and geotechnical engineering, survey and geo-spatial engineering, coastal and harbor engineering, building physics and sustainable materials, municipal or urban engineering, engineering and economy, and construction engineering. Contributions which are a good mixture of rigorous theoretical principles and experience-based technical solutions are especially welcome. Purely numerical or experimental approaches are also accepted, provided they are accompanied by a strong speculative investigation, finalized to extract a physical interpretation, and useful for enlarging the general knowledge of the problem.

Editor-in-Chief

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