

Special Issue

Earthquake Prevention and Resistance in Civil Engineering

Message from the Guest Editors

At present, a great number of economic and human losses have been registered in the world due to the occurrence of destructive earthquakes. In general, civil engineers design buildings following guidelines and/or construction codes. The main objective of those regulations is to prevent the collapse of the structures under the action of the most probable maximum earthquake in the zone under consideration. Unfortunately, there is still a knowledge gap in the prevention of damage to structures when they are excited by ground motions. In addition, the resistance and resilience of buildings must be accomplished within tolerable limits in terms of strength and service. Within this context, the performance-based seismic design philosophy has been in constant development for the last two decades.

Hence, this Special Issue welcomes submissions of comprehensive technical reviews as well as scientific papers where the following topics are addressed: earthquake resistance of steel and reinforced concrete buildings, resilience of structures excited by earthquakes, performance-based seismic design, ground motion, and other related topics.

Guest Editors

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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