Special Issue

Advanced Methods for Seismic Performance Evaluation of Building Structures III

Message from the Guest Editor

Earthquakes are one of the most dangerous natural events. Not only do earthquakes come in different sizes, they can also occur anywhere on the globe. The demand to reduce the risk associated with earthquakes has been growing every year, leading to greater research focus on seismic design and seismic performance evaluation. Recently, the performance-based seismic engineering approach has been adopted in the earthquake engineering community. In this approach, multiple seismic performance objectives are explicitly specified, which are defined with combinations of seismic hazard levels and structural and non-structural performance levels. Critical components of performance-based seismic design and evaluation procedures include state-of-art technologies related to seismic hazard analyses, robust numerical simulation frameworks, and sophisticated performance-based seismic design and assessment methodologies. Although major technologies have been developed, many challenging obstacles remain to be solved before they can be implemented in code provisions. The Special Issue aims to cover recent advances in the development of major components of seismic performance evaluation and design.

Guest Editor

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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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