Special Issue

Advanced Technologies in Seismic Design, Assessment and Retrofitting

Message from the Guest Editors

The constant need to improve the design of new structures with high resistance against earthquakes is a pressing requirement worldwide. The potential losses from a strong earthquake can be very large and are not limited to loss of life and property damage due to the earthquake itself, but also to corresponding losses due to secondary causes such as fires and explosions. In addition, due to the fact that a very large number of structures has been designed and built with the aid of older seismic codes or without the use of any seismic regulations, it makes the need for seismic assessment and strengthening imperative. Modern seismic regulations provide not only higher standards for the design of new structures, but also corresponding standards for the seismic assessment and strengthening of existing ones. In the effort to constantly upgrade the desired level of anti-seismic capacity of new and existing structures, new technologies are examined and tested, based on the new possibilities offered by modern software, structural monitoring procedures (through organization of structures) and machine learning methods.

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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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