Special Issue

Advanced Structural Health Monitoring Technologies for Civil Structures

Message from the Guest Editors

Frames are structural systems largely adopted in civil engineering works. Their ability to resist gravitational and lateral loads depends on the bending mechanisms that develop in beams and columns. Reinforced concrete members are bending-resistant structural elements whose capacity is a direct consequence of the complementary presence of compressive (concrete) and tensile (steel reinforcement) resisting materials. Due to the reduced maintenance cost and ease of construction, RC frames are among the most common structural resisting systems in buildings. Resistance when exposed to fire and robustness under thread-independent damage scenarios are some of the capabilities of RC frames. The aim of this Special Issue is to attract leading researchers in the area of the reliability assessment of RC frame buildings, in an effort to highlight the effects of aging, ordinary and exceptional loads, thread-independent damage scenarios or other phenomena that can occur during the working life of the constructions such as, but not limited to, maintenance and repair works.

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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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