Special Issue

Vibration Control and Isolation Systems for Civil Engineering Applications

Message from the Guest Editor

Civil engineering structures are prone to vibrations when subjected to dynamic loads, which may cause structural failure, discomfort to occupants, and the malfunction of the installed equipment. Hence, the mitigation of structural vibrations has always been a major concern amongst structural engineers. One of the effective means to reduce the dynamic response of tower-like structures is the application of vibration damping devices. In practical applications, passive, semi-active, and active vibration control systems are used. This Special Issue is aimed at providing selected contributions on vibration damping and isolation systems for civil engineering applications. Potential topics include, but are not limited to, the following: the development of vibration control systems; novel passive, semi-active or active tuned dampers; base isolation systems; the application of vibration control systems to CE structures; the damping of earthquake-induced vibrations; the damping of wind-induced vibrations; the damping of train-induced vibrations; the damping of pedestrian-induced vibrations; mechanical inverter; semi-active dampers; and active dampers.

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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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