



Passive Seismic Control of Structures with Energy Dissipation Systems

Guest Editor:

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Deadline for manuscript submissions:

closed (28 February 2021)

Message from the Guest Editor

The traditional seismic design approach is based on providing structures with a combination of strength and plastic deformation capacity to resist major earthquakes. Yet this approach implies structural damage throughout the structure after the earthquake. In many cases, repairing this damage is not economically feasible.

In recent decades, an alternative design trend has been growing: Dissipate energy in special passive energy dissipating devices, thereby reducing (or even cancelling) the energy dissipation demand (damage) on the primary structural elements that support the gravity loads. This Special Issue aims to cover recent advances in the development/implementation of energy dissipation devices and appropriate design methods that take full advantage of the benefits of these innovative technologies.

Keywords:

- energy dissipation device
- displacement-dependent damper
- velocity-dependent damper
- structures with damping systems
- passive control
- energy-based design
- damage control
- innovative technologies





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Message from the Editor-in-Chief

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