**Mini-symposium Title**

An Adaptive Seismic-Damping Structural System

**Description**

Natural hazards (such as earthquakes, floods, windstorms, and environmental vibration events) impose external forces on engineering structures that are notoriously hard to predict with precision. As a result, conventional systems or facilities with fixed dynamic characteristics often struggle to achieve both structural safety and uninterrupted functionality when subjected to these forces. Developing advanced structural systems and devices with “Adaptive” capabilities may resolve this dilemma. This forum therefore welcomes experts and scholars to share their work on topics including, but not limited to, innovative structural systems, novel component development, theoretical advances, experimental validation, and design methodologies.

Papers are especially encouraged in the following areas (though other related themes are also welcome): Active and passive structural control technologies, Vibration-protection techniques for equipment, Structural monitoring and inspection methods, Safety early-warning systems, Applications of artificial intelligence in structural engineering, Semi-active control approaches.

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