Special Issue

Advanced Materials and Technology for Resilient Bridge Infrastructures

Message from the Guest Editor

Bridges occupy a key position in the transportation system that provides for economic and societal lifeline, and especially are important for evacuation, rescue, and recovery efforts before, during, and after extreme events such as hurricanes, earthquakes and other natural or man-made hazards. It is essential that bridges have “resiliency” against adverse effects. Innovative materials and technologies for design and construction of new bridges, and for health monitoring, retrofitting and maintenance decision making of existing bridges are imperative for providing better resiliency. Relevant bridge related topics to be considered include but not limited to:

- Innovative solutions and technologies for design and construction for resiliency
- Evaluating response to ordinary and extreme events
- Solutions for limiting damage to elements that are easily repairable
- Innovative construction and repair materials for better durability and resistance
- Accelerated bridge construction technologies for replacement and repair
- Innovative approaches to health monitoring, assessment, and reliability analysis
- Risk-based decision-making for maintenance, retrofit, and restoration

Guest Editor

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