



ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems

Part B: Mechanical Engineering

CALL FOR PAPERS Special Issue on Community Resilience to Disruptive Events: Models and Analyses, Lessons Learned, and Case Studies (SI055B)

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Special Issue on Community Resilience to Disruptive Events: Models and Analyses, Lessons Learned, and Case Studies (SI055B)

Many types of disruptive events, such as earthquakes, tropical cyclones, floods, wildfires, and remarkably the coronavirus (COVID-19) pandemic, have threatened communities around the world with dramatic consequences. With respect to this, society is asking justified questions: how resilient is our community against disruptive events? How can we use resilience approaches to counteract disruptive events? What lessons can we learn from real-world practices to enhance the resilience of our community?

This Special Issue is aimed at gathering contributions of methods, lessons, and practices useful to achieve community resilience in the face of disruptive events. Papers discussing the impacts of disruptive events on a community's resilience in terms of functionality loss and recovery process, uncertainty quantification in community resilience modeling, resilience approaches to counteract impacts of disruptive events, and critical lessons learned from existing practices towards enhancing community resilience are all solicited.

Topic Areas

- Quantifying the serviceability of a community's infrastructure system due to disruptive events (e.g., earthquakes, tropical cyclones, floods, wildfires, and COVID-19)
- Modeling the recovery process of post-disruption community functionalities
- Uncertainty quantification in the modeling of community resilience against disruptive events
- Resilience approaches to counteract the impacts of disruptive events (e.g., disaster ridesharing practices, mitigation of disaster socio-economic impacts)
- Case studies and lessons learned from real-world practices to enhance community resilience (e.g., application of emerging technologies)

Publication Target Dates

Paper submission deadline	February 28, 2023
Initial review completed	April 30, 2023
Special Issue publication date	September 1, 2023

Submission Instructions

Papers should be submitted electronically to the journal at journaltool.asme.org. If you already have an account, log in as an author to your ASME account. If you do not have an account, sign up for an account. In either case, at the **Paper Submittal** page, select the [*ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering*](#) and then select the Special Issue **Community Resilience to Disruptive Events: Models and Analyses, Lessons Learned, and Case Studies (SI055B)**. Papers received after the deadline or papers not selected for inclusion in the Special Issue may be accepted for publication in a regular issue.

Before submitting your full-length paper, please send a 200-word abstract to Guest Editor Dr. Cao Wang (wangc@uow.edu.au) to assess the relevance of the contribution to the Special Issue.

Guest Editors

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