

**Guest Editors:**

Brett Sanders, Ph.D. - bsanders@uci.edu

Katharine Mach, Ph.D. - kmach@miami.edu

Miyuki Hino, Ph.D. - mhino@unc.edu

Ebrahim Ahmadisharaf, Ph.D. - eahmadisharaf@eng.famu.fsu.edu

## Call for Papers

### Special Collection: Towards Equitable and Effective Flood Risk Adaptation



### Aims & Scope

Climate change is intensifying flood risks, with profound socioeconomic and racial/ethnic inequities. Equitable flood adaptation, however, is extremely challenging. Flooding dynamics are complex and uncertain, decision-making is limited by sociopolitical and institutional power structures and constraints, and participatory processes are very time consuming. To date, neither the processes nor the outcomes of flood adaptation have delivered upon aspirations for environmental justice.

Major advances in engineering methods and tools (including community engagement processes) are now urgently needed to empower planning, engineering, and design professionals to meet the full needs of communities for infrastructure that cost-effectively provides social, economic and environmental benefits.

This Special Collection is aimed at attracting studies presenting new methods aligned with the broad need for equitable and effective flood risk adaptation, as well as case studies that advance understanding of flood risk inequities. The vision for the Special Collection is a future whereby planning, engineering and design professionals working in flood risk adaptation have access to cutting edge tools, processes, fundamental knowledge, practical guidance, and case studies and achieve environmental justice goals with investments in flood risk adaptation.

### Topics of Interest

- Methods to quantify social inequalities in flood risk.
- Methods to synthesize complex hazards science (e.g., climate extremes, climate scenarios, uncertainties) into actionable information for community-engaged planning and design of flood infrastructure.

*continued on reverse*

# ASCE OPEN: Multidisciplinary Journal of Civil Engineering



## Guest Editors:

Brett Sanders, Ph.D. - [bsanders@uci.edu](mailto:bsanders@uci.edu)

Katharine Mach, Ph.D. - [kmach@miami.edu](mailto:kmach@miami.edu)

Miyuki Hino, Ph.D. - [mhino@unc.edu](mailto:mhino@unc.edu)

Ebrahim Ahmadisharaf, Ph.D. - [eahmadisharaf@eng.famu.fsu.edu](mailto:eahmadisharaf@eng.famu.fsu.edu)

## Call for Papers

### Special Collection: Towards Equitable and Effective Flood Risk Adaptation



- Methods to make flood risk adaptation decision-making processes more inclusive (e.g., collaborative flood modeling, digital twins).
- Tools for developing and evaluating flood adaptive pathways.
- Flood risk adaptation case studies that demonstrate innovative and effective use of social metrics to inform decision-making.
- Regional and larger-scale studies on flood risk trends and hot spots across social groups and geographies.

## Submission Guidelines

1. Please submit your manuscript via the *ASCE OPEN: Multidisciplinary Journal of Civil Engineering* editorial manager website: <https://www.editorialmanager.com/jrnaoeng>
2. Once on the Editorial Manager website, please indicate that your paper is for the special collection "International Conference on Creative and Innovative Solutions in Civil Engineering".
3. Detailed information on the submission process is provided in the ASCE Library author center: <https://ascelibrary.org/author-center>

Please note that all accepted papers submitted in response to this Call for Papers will be published in regular issues of the *ASCE OPEN: Multidisciplinary Journal of Civil Engineering* and assembled online on a page dedicated to this Special Collection.