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# Performance of Transportation Systems Subjected to Extreme Hydrodynamic Events

Guest Editors:

### Dr. Denis Istrati

Department of Civil and Environmental Engineering, University of Nevada, Reno, NV 89557, USA

#### Prof. Dr. Ian Buckle

Department of Civil and Environmental Engineering, University of Nevada, Reno, NV, USA

## Prof. Dr. Michael Scott

School of Civil and Construction Engineering, Oregon State University, Corvallis, OR, USA

Deadline for manuscript submissions:

closed (15 January 2023)

# **Message from the Guest Editors**

Recent tsunamis, hurricanes, and flash floods have caused extensive damage to bridges and other civil infrastructure around the world. This widespread damage paralyzed entire transportation networks, hindering rescue efforts and recovery of communities. Given the projected increase in the frequency and intensity of storms and floods due to climate change, and the socio-economic importance of transportation systems, the vulnerability of such systems has become a major topic of interest. Therefore, the objective of this special issue is to invite cutting-edge original research that focuses on the performance of transportation infrastructure subjected to extreme flooding. Topics of interest include:

- Hydrodynamic loading on transportation infrastructure:
- Structural performance and failure modes caused by flooding;
- Impulsive and damming effects of debris on structures;
- Hydrodynamic scour of piers, abutments, and roadways;
- Computational fluid dynamics and fluid-structure interaction;
- Risk and resilience assessment methodologies; and
- Mitigation strategies at the structural and network level.



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## **Editor-in-Chief**

## Prof. Dr. Tony Clare

School of Natural and Environmental Sciences, Newcastle University, Newcastle upon Tyne NE1 7RU, UK

## **Message from the Editor-in-Chief**

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