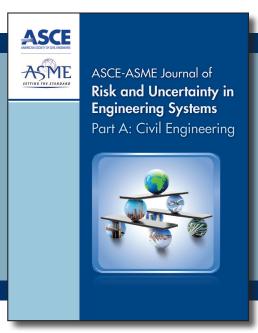# ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering

Guest Editors:

Qing Yu, Jimei University, China, qing.yu@jmu.edu.cn
Jakub Montewka, Gdansk University of Technology, jakub.montewka@pg.edu.pl
Floris Goerlandt, Dalhousie University, Canada, floris.goerlandt@dal.ca
Chengpeng Wan, Wuhan University of Technology, Wuhan, China, cpwan@whut.edu.cn
Zhisen Yang, Shenzhen Technology University, Shenzhen, China, yangzhisen@sztu.edu.cn
Zaili Yang, Liverpool John Moores University, UK, z.yang@ljmu.ac.uk

Call for Papers

Special Collection on New Technologies in Risk Assessment of Maritime Transport

ASCE-ASME Journal of **Risk and Uncertainty in Engineering Systems** Part A: Civil Engineering

Aims & Scope

Motivated by the transition of trading demands in context of ongoing economic developments, the shipping industry is of rising importance from both national and international perspectives. However, maritime transport still suffers various risks due to emerging technological development (e.g., autonomous ships), new hazards/threats (e.g., climate change, cybersecurity, and COVID-19), foci evolution from local to network levels (e.g., impact of Suez Canal blockage to supply chains), and new and emergent transportation routes (e.g. Arctic shipping). The continued need for focus on maritime risks is evident also from several accidents which have occurred in the past years. Although various studies have been conducted in assessing risks associated with marine systems, remaining challenges involve comprehensive maritime risk modelling in the abovementioned emerging aspects. This requires focused attention and continued work in the academic field, as only limited research can be found in the relevant literature.

It is of great importance to propose, develop, and advance transformational and emerging research orientations in this field to realize safe, resilient and sustainable maritime transportation. Especially the development of new technologies for risks emerging from information interconnection and changing environmental conditions requires systematic innovation, to promote high-quality maritime transportation. The purpose of this special issue is to promote excellent research in all aspects related to maritime risk assessment. Topics of interest include, but are not limited to, the following:

Topic Areas

- Data-driven risk modelling
- Approaches for integrated risk assessment
- Maritime risk evaluation and risk acceptability
- Safety and security management of ports

ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering

ASCE ®
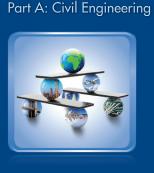AMERICAN SOCIETY OF CIVIL ENGINEERS

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- Port state control inspection
- Risk-based decision-making in maritime transportation
- Maritime accident analysis
- Risk prevention, mitigation, and adaptation approaches
- Maritime system optimization

Publication Target Dates

Publication Target Dates (US format: month/date/year)

1. Paper Submission Deadline: July 31, 2023
2. Initial Review Completed: September 30, 2023
3. Special Issue Publication Date: March 31, 2024

Standard Submission Instructions

Papers should be submitted electronically to the Journal at https://editorialmanager.com/jrnrueng/default1.aspx. If you already have an account, log in as author and select Submit Paper at the bottom of the page. If you do not have an account, select Submissions and follow the steps. In either case, at the Paper Submittal page, select the ASCE-ASME Journal for Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering and then select the special issue Advances in efficient methods in random fields modeling and analysis. Papers received after the deadline or papers not selected for inclusion in the Special Issue may be accepted for publication in a regular issue.