Background

Risk and uncertainty in engineering has the challenging characteristics of being multidisciplinary, cross cutting and system centric. To meet this challenge, the ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems is society wide, cutting across committees, councils, divisions and institutes. It meets the needs of researchers and engineers for addressing risk, disaster and failure-related challenges due to many sources and types of uncertainty in design, analysis, operation and life-cycle management of not only existing but also modern engineering systems. It helps to fulfill the ASCE and ASME visions.

Selected Focus Topics

Selected focus topics are grouped as follows:
- Multidisciplinary areas (risk methods, uncertainty analysis and quantification, reliability, safety, management, financial & insurance issues, computational methods, systems, resilience, and sustainability)
- Civil engineering areas (infrastructure, construction, environmental, transportation, water resources, coastal engineering, construction engineering, project management, and lifecycle)
- Mechanical engineering areas (mechanical assets and infrastructure, materials and electromechanical, energy-related including nuclear, gas and renewable sources, and manufacturing)
- Related areas (coastal and ocean systems, bioengineering, climate change adaptation, information storage and processing, finance, economics, robotics, automation, and control)

Objectives

The objectives of the journal are to (1) serve as a medium for dissemination of research findings, best practices and concerns, and for discussion and debate on risk and uncertainty related issues; and (2) report on the full range of risk and uncertainty analysis state-of-art and state-of-practice relating to all civil and mechanical engineering and other related fields including but not limited to risk quantification based on hazard identification, scenario development and rate quantification, consequence assessment, valuations, perception, communication, risk-informed decision making, tradeoff analysis, resilience and sustainability.

Special Issues

Proposals for special issues are welcome. If approved by the editors, proposers will be appointed as guest editors to solicit papers and manage the paper review.

Resources for Authors

Civil Engineering (ASCE) http://bit.ly/1fjV7sS
Mechanical Engineering (ASME) http://bit.ly/1dakPMp

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