

ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems

Part A: Civil Engineering, and Part B. Mechanical Engineering

The [Editorial Board](#) of the ASCE-ASME Journal invites contributions presenting state-of-the-art research and best practices for addressing risk, disaster and failure-related challenges arising from uncertainty. We particularly welcome emerging research relating to availability and processing of big data, including data driven decision support, machine learning and further computational intelligence tools relating to risk and uncertainty.

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Part B: <http://risk.asmedigitalcollection.asme.org/journal.aspx>

Please contact the Editor or the Managing Editors by email if you have an interest to guest edit a special collection (Part A) or a special issue (Part B).

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

Special Collection Announcements

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[Special Collection on Extreme Damage Mechanics for Lifecycle Fatigue Resilience of Infrastructure Systems](#)

Xudong Zhou, Yongtao Bai, Frédéric Ragueneau, Julio Florez-Lopez

[Special Collection Advances in Efficient Methods in Random Fields Modeling and Analysis](#)

Zhenhao Zhang, De-Cheng Feng, You Dong, Emilio Bastidas-Arteaga

[Special Collection on Resilience of Power Infrastructure System](#)

Wei Zhang, Ge Ou, Youngjib Ham, Zingjie Wang

[Special Collection on New Technologies in Risk Assessment of Maritime Transport](#)

Qing Yu, Jakub Montewka, Floris Goertlandt, Chengpeng Wan, Zhisen Yang, Zaili Yang

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Technical Paper

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Iman Youssefi and Tolga Celik

Technical Paper

[Optimal Matching between Vehicle Speed and Lighting at Intersection Based on Traffic Risk Analysis](#)

Hongtao Li, Linhong Wang, Hongyu Hu and Yiming Bie

Technical Paper

[Shear Performance of Large-Thickness Precast Shear Walls with Cast-in-Place Belts and Grouting Sleeves](#)

Linzi Fan, Jialong Wei, Yao Chen, Jian Feng and Pooya Sareh

Technical Paper

[Comparison of Data-Driven Site Characterization Methods through Benchmarking: Methodological and Application Aspects](#)

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Technical Paper

[Driving Parameter Trends and a Safety Evaluation Method Based on the Composite Ratio for Shield Tunneling in Complex Strata](#)

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Technical Paper

[Bayesian Analysis of Benchmark Examples for Data-Driven Site Characterization](#)

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Technical Paper

[Evolutionary Game Analysis for the Behaviors of Risk Allocation Participants in Public-Private Partnerships](#)

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Technical Paper

[Data-Driven Development of Three-Dimensional Subsurface Models from Sparse Measurements Using Bayesian Compressive Sampling: A Benchmarking Study](#)

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[In this issue of Part B Mechanical Engineering](#)

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Research Papers

[Mass Imbalance Diagnostics in Wind Turbines Using Deep Learning With Data Augmentation](#)

Shweta Dabetwar, Stephen Ekwaro-Osire, João Paulo Dias, Guilherme R. Hübner, Claiton M. Franchi, Humberto Pinheiro

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[Robust Dynamic Balancing of Dual Rotor-Active Magnetic Bearing System Through Virtual Trial Unbalances as Low and High Frequency Magnetic Excitation](#)

Gyan Ranjan, Rajiv Tiwari, H. B. Nemade

[The Study of Artificial Intelligent in Risk-Based Inspection Assessment and Screening: A Study Case of Inline Inspection](#)

Taufik Adityawarman, Johny Wahyuadi Soedarsono, Agus Paul Setiawan Kaban, Rini Riastuti, Haryo Rahmadani

[Evaluation of Risk and Uncertainty for Model-Predicted NOAELs of Engineered Nanomaterials](#)

Based on Dose-Response-Recovery Clusters Vignesh Ramchandran, Jeremy M. Gernand

[A Set of Estimation and Decision Preference Experiments for Exploring Risk Assessment Biases in Engineering Students](#)

Jeremy M. Gernand

(preview of the next issue in progress)

[Application of Multi Parameter Path Length Method for Resilience \(MP-PLMR\) to Engineering Systems](#)

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[Establishment of the Off-Center Embedded Crack Stress Intensity Factor Database for Probabilistic Risk Assessment Based on Universal Weight Function](#)

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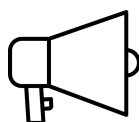
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