

10. - 12. September 2025

University of Rostock, Germany



21ST INTERNATIONAL PROBABILISTIC WORKSHOP (IPW 2025)

The International Probabilistic Workshop (IPW) series is a platform where experts and practitioners come together to explore the role of uncertainty in engineering problems. At its core, the workshop delves into the application of probability methods to tackle real-world challenges in design, assessment, and system management. From evaluating structural reliability and safety to developing risk management strategies, the IPW emphasizes the importance of rationally integrating uncertainty into engineering. Through engaging discussions and presentations, participants address topics like:

- **Structural safety and reliability**
- **Uncertainty modelling and quantification**
- **Predicting and preparing for climate threats and extreme events**
- **Robustness and resilience of buildings and infrastructure**
- **Design, construction and maintenance decision making**
- **Risk management and insurability**
- **Digital tools in risk identification, assessment and mitigation**
- **Artificial Intelligence for simulation, analytics and decision support**



Case studies and interdisciplinary collaborations can further enrich the program, showcasing how these methods are applied across civil, mechanical, and environmental domains for enhanced management and more sustainable practices.

In addition to its general themes, the IPW 2025 will focus on key topics structured around the following axes, aiming to foster contrasts that promote scientific dialogue and collaboration:

- **Bridging cutting-edge research with urgent industry demands**
- **Exploring and comparing the impacts of climate change on coastal versus continental regions**
- **Enhancing established risk science methods with data analytics and Artificial Intelligence**

The conference program will be enriched with specialized training courses and engaging social events.

Keynote Lecturers:

Dan M. Frangopol

*Fazlur R. Khan Endowed Chair of Structural Engineering and Architecture
Lehigh University, Bethlehem, Pennsylvania, USA*

Konrad Bergmeister

*Institute of Structural Engineering (IKI)
University of Natural Resources and Life Sciences, BOKU Vienna, Austria*

Abstract Submission Details:

- The abstract should not exceed 1300 characters
- **Deadline:** The deadline for abstract submissions is **February 7, 2025.**

