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# Scientific Advances vs. Engineering Challenges on Flood Design and Risk Assessment under Uncertainty

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## **Message from the Guest Editors**

With the intensification of castastrophic flood events worldwide, it is critical to account for changing issues and associated uncertainties in the design of hydraulic infastructures and the preparation of flood risk management plans. On the other hand, the practical use of change and uncertainty in hydro-environmental sciencesis rather limited among stakeholders and practitioners. In this context, the specific topics include, but are not limited to:

- The recognition and quantification of different sources of uncertainty within flood simulation and forecasting;
- Stochastic vs. deterministic interpretations of hydroclimatic and environmental changes and their impact on flood estimations;
- Revisiting classical flood modelling concepts, assumptions, formulaes, and associated design recipes;
- The presentation of novel approaches for flood risk assessment;
- The evaluation of uncertainties of flood-awareness systems;
- Know-how transfer of uncertainty to decisionmaking processes and the flood engineering industry.







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

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