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# Model Uncertainty in Water Science: Conceptualization, Assessment and Communication

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### Message from the Guest Editors

Substantial research has been devoted to uncertainty quantification in water sciences in the last few decades. More recently, an actively-investigated aspect is the uncertainty arising from the definition of alternative model conceptualizations describing complex hydro(geo)logical systems. Such systems are, more often than not, conceptualized on the basis of limited, or even biased, data and knowledge, therefore accepting multiple interpretations. This 'conceptualization problem' will have substantial impacts on uncertainty quantification and ultimately on risk assessment and water management. This line of research has opened multiple questions from ways to properly define conceptualizations, the value alternative of data/information/knowledge to reduce model uncertainty, model structure diagnostics, frameworks to efficiently combine from) (or select multiple conceptualizations/working hypotheses, to the link with robust risk assessment frameworks. [...]









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## Message from the Editor-in-Chief

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