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Impact of Geological Uncertainty on Geological Hazards and Groundwater Environment Assessments

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Message from the Guest Editors

Dear Colleagues,

Geological heterogeneity, limited data, and polysolotion of data interpretation are recognized as the major sources of uncertainty in practical engineering geology problems. With the development of measurement technologies, geophysical technology, and simulation modeling methods, many efforts have been made to reduce uncertainty, focusing on bridging the gaps between available geological data and accurate geologic models. Actually, geologic knowledge of engineering practice plays an essential role in characterizing and quantifying uncertainty in different geologic models at different scales. Ignorance of the uncertainty in geologic models often leads to the failure of engineering structures, geohazards (such as landslides, groundwater inrush, and ground subsidence), and groundwater environmental problems, all of which can pose significant societal risk. Therefore, it is critical to characterize and quantify the geological uncertainty of geologic models and to systematically examine their implications [...]

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Message from the Editor-in-Chief

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