



Assessment of Vulnerability to Natural Hazards

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Message from the Guest Editor

Dear Colleagues,

Natural hazards such as earthquakes, typhoons, and landslides cause a great deal of damage to human society. Therefore, the study of natural hazards is critical for the sustainable development of society. However, due to natural randomness and our understanding of the recurrence mechanisms of natural hazards, it is difficult to predict the occurrence and magnitude of natural hazards. Therefore, new approaches have been proposed for estimating the occurrence probability of natural hazards. Along with the plausible consequences caused by the natural hazards, decision makers can calculate the risk as the product of occurrence probability and consequence, and make scientific decisions by lowering the risk.

As a result, the scope of this SI titled “Assessing Vulnerability to Natural Hazards” will include: 1) methods for predicting natural hazards occurrence and for estimating the occurrence probability; 2) approaches characterizing the impact and consequence of natural hazards; 3) case studies of natural hazards and their impact on society; and 4) methods for natural hazards risk assessment and mitigation.





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