Special Issue

Simulation and Analysis of Flood Disaster in River Basins during Typhoons and Heavy Rainstorms

Message from the Guest Editors

Global warming and climate change have increased typhoons and heavy rainstorms. The loss in occasions of flood disaster is severe because the population is more concentrated in urban areas. The simulation of a flood event is initiated from the upstream rainfall-runoff process, midstream flood wave propagation to the downstream inundation imitation. Flood disaster prevention can be implemented through structural or nonstructural measures. Since both are based on a series of hydrological simulations, a better understanding of current flood simulation methods is considered necessary. Keywords: Hydrology, hydraulic Rainfall-runoff processes Flood wave propagation Inundation simulation Stability of numerical algorithms Historic flood analysis Flood forecasting and risk analysis Sediment transport during flood Flood economic impact

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Editor-in-Chief

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