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Historical Development of Hydroinformatics Tools in Bangladesh and Challenges and state-of-the-art in Urban Drainage Modelling

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ABSTRACT

Bangladesh experiences severe imbalances of water availability during different period of the year; as a consequence any solution for a problem of one water user has an adverse impact on another. Mathematical modelling technology was introduced in early eighties for generating data, simulating planning scenarios and supporting decisions. By the middle of nineties, major efforts were invested to interface mathematical models with Geographic Information Systems (GIS) so that non-engineers can comprehend the solutions. In a recent study for Khulna City, urban flood model was used to determine climate change adaptation measures taking into account economic, social and public health impacts.