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## Enhancing Hydrological Prediction through Modelling with Large Datasets

Guest Editor:

**Dr. Francis Chiew**

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Deadline for manuscript submissions:

**closed (30 November 2018)**

### Message from the Guest Editor

Dear Colleagues,

Robust prediction of hydrological characteristics (long-term averages, high flow extremes, low flow characteristics, river and floodplain connectivity) are essential for assessments, planning and adaptation in the water and environmental and related sectors. Research through targeted modelling experiments and comparative assessment and characterisation using datasets (streamflow and climate, and physical characteristics) from a very large number of catchments can provide valuable insight and significantly improve hydrological prediction, particularly for ungauged regions. There are increasingly more studies learning from exploring large hydrological datasets, accelerated by faster computing, enhanced digital technology and stronger global collaborative networks. This Special Issue will publish seminal papers on enhancing hydrological prediction through modelling with large data sets. Key areas include predicting hydrological characteristics or signatures, modelling runoff in ungauged catchments and over large regions, hydrological prediction in data sparse regions, predicting impact of development and land use change, ...



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**Special** issue



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## Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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