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Long-Term Climate Modeling and Hydrological Projection

Guest Editor:

Prof. Dr. Gordon Huang
University of Regina, Faculty of Engineering and Applied Science, Regina, Canada

huangg@uregina.ca

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Message from the Guest Editor

Dear Colleagues,

Climate change has significant impacts on water resource systems. Such impacts may involve the hydrological cycle and the related human interests, such as water supply, drought prevention, and flooding control. With the effects of climate change, planning for various water-related infrastructure will also need to be updated. Therefore, long-term climate modeling and hydrological projection are essential for supporting the improvements of such plans.

This Special Issue encourages contributions of (1) coupled models for long-term hydroclimate simulation; (2) hydrologic impacts based on long-term climate projections, driven by GCMs, RCMs, and statistical downscaling models; (3) adaptation of climate-change impacts on the hydrological cycle, associated with the analyses of their socioeconomic and environmental effects; and (4) reflection of uncertainties in long-term climate modeling and hydrological projection, as well as the relevant efforts for adaptation planning.

Prof. Dr. Gordon Huang
Guest Editor