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Advances in River Ice Research

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

River ice is an essential element in hydraulic and hydrological engineering in cold regions. River ice evolution involves thermal and mechanical processes not covered in traditional river hydraulics. Additionally, river ice could have essential effects on channel morphology. This phenomenon has become more important in the Arctic and other regions with permafrost due to the influence of climate change. Over the last 50 years, river ice research has matured with significant recent advances. This Special Issue will include all aspects of river ice hydraulics and hydrology, the impacts of river ice on the environment and ecology, and the effect of climate change on ice processes. Advances in laboratory, field, analytical methods, and case studies will be considered.

Prof. Dr. Hung Tao Shen
Guest Editor



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Special Issue