



water

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Fluvial Hydraulics Affected by River Ice and Hydraulic Structures

Guest Editor:

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Deadline for manuscript
submissions:

closed (31 October 2021)

Message from the Guest Editor

In winter, river ice forms when the water temperature declines to freezing. The formation of ice cover in rivers is an important phenomenon that affects fluvial hydraulics compared to that under open flow conditions. As a consequence, the winter operation of ice-covered rivers has to be changed. In the past 30 years, with the growing interest in fluvial hydraulics under ice-covered flow conditions, some progress has been made. Some cutting-edge research on all aspects of fluvial hydraulics under ice-covered flow conditions has been published. However, a more comprehensive understanding of the impact of ice cover on fluvial hydraulics is required. This Special Issue calls for renewed contributions that improve knowledge of this theme, including but not limited to the impacts of ice cover/jam on sediment transport and local scour/deformation of the riverbed. Research works regarding the effects of river ice on the operation of hydropower plants and channel navigation are welcome. Contributions regarding the impacts of ice cover on environmental and aquatic systems will be also included.



mdpi.com/si/70159

Special Issue



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Message from the Editor-in-Chief

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Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

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