# **Special Issue**

# Hydrological Systems and Models Applied in Permafrost

### Message from the Guest Editor

The objective of this Special Issue of Geosciences is to cover all aspects of water in permafrost.

Hydrology is an important component of the permafrost environment. Lakes and rivers cover vast territories of permafrost area and are considered as valuable redistributors of organic and inorganic matter and heat fluxes. Large northern rivers accumulate the runoff from the non-permafrost areas and transport this material through the entire Arctic, wherein the fate of this material remains poorly studied. Climate warming observed in the last decades may trigger permafrost thaw and changes in precipitation regimes, which will manifest as changes in permafrost hydrology. Therefore, this Special Issue of Geosciences wishes to provide an overview of the application of numerical, geochemical, and cartographic modeling to lake, river, surface runoff, and active-layer waters and their interaction and recharge, including rain and snow input as well as discharge.

### **Guest Editor**

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### Deadline for manuscript submissions

closed (15 October 2020)



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### Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherentset of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientificallybased political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

### **Editor-in-Chief**

Prof. Dr. John C. Eichelberger

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