



## Beyond the Channel—Investigating Processes at Crucial Fluvial Interfaces

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### Message from the Guest Editors

Due to climate change and anthropogenic impacts, many rivers worldwide have experienced regime shifts in fluvial processes, which often affects their health and delivery of services. Complementary to flow and sediment regimes in the main channel, several processes of paramount importance are occurring at the environment interfaces such as the air-water, water-sediment, water-vegetation, and freshwater-seawater interfaces.

The overall goal of this Special Issue of Geosciences is to explore the processes at these crucial interfaces of the fluvial environment, that also play important role in river geomorphology and in maintaining the health and functioning of rivers and interfacing ecosystems.

This special issue aims to cover, without being limited to, the following areas:

gas-transfer at free-surface;  
sediment transport and morphodynamics in streams and rivers;  
hyporheic fluxes;  
flows at river confluences;  
vegetated flows;  
estuarine hydrodynamics and morphodynamics;  
riverine eco-hydraulics.





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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 coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based 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.

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