# Special Issue

# Intelligent Approaches in Predicting Hydrodynamics and Sediment Transport

## Message from the Guest Editor

The objective of this Special Issue is to introduce intelligent and innovative approaches in predicting hydrodynamics and sediment transport in riverine, coastal, and estuarine areas. These approaches may cover, but are not limited to, aspects of data collection, model development/improvement, process parametrization, numerical experiment design, and results analysis. We encourage studies of stage/water level, streamflow/current, storm surge, waves, salinity, temperature, sediment transport, short- and long-term morphological changes in rivers, lakes, bays, deltas, and coasts. We are also interested in the impacts of extreme events (e.g., flood, cold fronts, and tropical storm), land subsidence, sea level rise and human activities (e.g., deep waterway projects, sediment diversion projects, navigation channel dredging, and hydraulic structures). The applications of new techniques/methodologies in modeling, such as data assimilation, remote sensing, neutral network, machine learning, and high-performance computing, are especially welcome.

## Guest Editor

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## Deadline for manuscript submissions

closed (30 September 2022)

# Applied Sciences

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

### Editor-in-Chief

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