hydrology

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Advances in Large Scale Flood Monitoring and Detection

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Deadline for manuscript submissions:
closed (30 June 2018)

Message from the Guest Editors

Dear Colleagues,

The last decades have seen a massive increase in new technologies for Earth observation (EO) and environmental monitoring, which provided scientists and engineers with valuable spatial information for studying hydrologic processes. A variety of research fields have progressed significantly, e.g., the extreme flood events. In fact, flood exposure and risk over large areas and in scarce data environments has always been a challenging topic.

The Special Issue is dedicated to contributions focusing on the benefit of the use of new algorithms, new measurements systems and EO data for flood assessment, monitoring, and management. The research presented might focus on:

- New methods and technologies for river morphology monitoring;
- Innovative methods for flood mapping over large areas;
- Use of open/big data in hydrologic modelling of floods;
- Advanced applications of EO and UAS data for hazard, vulnerability, risk mapping, and post-disaster recovery phase;
- Innovative applications in support to disaster risk reduction strategies;
- Development of tools and platforms for assessment<