Modern Developments in Flood Modelling

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Message from the Guest Editors

This Special Issue highlights current efforts in advancing the science and applications in flood engineering and more specifically in a wide spectrum of its related geosciences such as hydrology, hydraulics, sedimentation, river restoration. We, therefore, encourage researchers and experts to present their innovative contributions in the following areas:

- Recent remote sensing dataset (rainfall, flood footage etc) and its use in flood modelling;
- Compound events (fluvial, pluvial, coastal flooding and flooding due to a structure failure) and the integration of each driver, along with innovative ideas joint probability flooding models;
- Advances in early flood forecasting systems;
- Advanced approaches in erosion and sedimentation modelling;
- New trends in dam break problems;
- Extreme rainfall and runoff statistical analysis;
- Climatological analysis on quantifying long term changes in annual maximum flooding patterns;
- New developments on natural retention measures (green and green-grey approach);
- Worldwide best practises highlighting the importance of integrated flood relief schemes for adapting city resilience.

Special Issue