



CONFERENCE THEMES

The scope of the conference includes, but is not limited to the following major themes and sub-themes:

Theme 1. Water and Climate Change

- 1.1. Climate extremes and variability
- 1.2. Climate change projections at regional scale
- 1.3. Trends in hydrologic processes and their link to climate variability
- 1.4. Hydrologic extremes: floods, droughts, and extreme precipitations
- 1.5. Modeling hydrologic processes in a changing climate
- 1.6. Downscaling methods
- 1.7. Risks and design of hydraulic structures in a changing climate
- 1.8. Climate change impacts and adaptation

Theme 2. Environmental Hydraulics and Hydrology

- 2.1. Fluvial hydraulics
- 2.2. Lake hydraulics
- 2.3. Sediment and transport modeling
- 2.4. Dam and levee breach modeling
- 2.5. Flood forecasting modeling
- 2.6. Experimental and computational hydraulics
- 2.7. Modeling hydrologic processes in the context of climate and land use changes
- 2.8. Green infrastructure design, performance and practice

Theme 3. Coastal Hydraulics

- 3.1. Coastal, port, harbour, and ocean engineering
- 3.2. Marine structures
- 3.3. Coastal zone management
- 3.4. Modeling coastal ecosystems in a changing climate
- 3.5. Coastal hydrodynamics
- 3.6. Wave-structure interactions
- 3.7. Coastal monitoring
- 3.8. Physical and numerical modeling

Theme 4. Sustainable Water Management

- 4.1. Decision support systems
- 4.2. Hydroinformatic tools
- 4.3. Advances in water monitoring techniques
- 4.4. Smart technology for water management
- 4.5. Integrated water resources management
- 4.6. Strategies for efficient water resources planning and management
- 4.7. Flood control, management and risk assessment
- 4.8. Water security