13th International Conference on Hydroinformatics

HIC2018 - Water and environmental challenges in a changing world

Palermo, 1st – 6th July 2018
Conference Chairs:
Goffredo La Loggia
goffredo.laloggia@unipa.it

Gabriele Frenì
gabriele.freni@unikore.it

Conference Vice-Chairs:
Joong Hoon Kim “Jay” (Korea University, Korea)
Adrián Pedrozo-Acuña (Universidad National Autonoma de Mexico, Mexico)
Leonardo Noto (University of Palermo, Italy)

Conference Venue:
Palermo – University Campus
## Key dates

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session proposal</td>
<td>10 July 2017</td>
</tr>
<tr>
<td>Abstract submission</td>
<td>1 October 2017</td>
</tr>
<tr>
<td>Paper submission</td>
<td>15 February 2018</td>
</tr>
<tr>
<td>Short course proposal</td>
<td>15 February 2018</td>
</tr>
<tr>
<td>Conference dates</td>
<td>1-6 July 2018</td>
</tr>
</tbody>
</table>
Conference Themes:

A. Technologies for Water Management and Monitoring

A1. Advanced technologies for water systems monitoring
A2. Soft and smart sensors applications for water systems
A3. Real time control technologies and applications
A4. ICT for water
A5. Optimization techniques and their application
A6. Complex network theory and its application
A7. Internet, Cloud and Mobile application for water
A8. Social Media Mining and Open Data for water
A9. Decisions using Probabilistic Forecasts
Conference Themes:

B. Remote sensing

B1. Remote sensing applied to hydrology
B2. Remote sensing for water resource management
B3. Remote sensing for coastal modelling and water quality
B4. Airborne and remote data integration and verification
B5. Data Assimilation Techniques
Conference Themes:

C. Big-data, knowledge and water data management

C1. Data-mining techniques
C2. Knowledge management
C3. Big-data analytics
C4. Complex network analysis
C5. SCADA systems and data validation
C6. DSS and GIS for water management
C7: IOT applications for water management
D. Hydraulic and hydrological modeling

D1. Physically based vs conceptual hydrological models
D2. Mathematical modelling of water systems
D3. Hydraulic modelling of complex water bodies
D4. Water quality modelling
D5. Model validation, calibration and uncertainty analysis
D6. Predictive Uncertainty assessment and Ensembles
D7. Computational intelligence in data driven hybrid modelling
D8. Modeling of urban water distribution and drainage systems
Conference Themes:

E. Climate change impacts

E1. Regional Climate Modeling
E2. Quantification of Uncertainties
E3. Impacts on resources, flooding, drought
E4. Resilience, adaption and mitigation

F. Environmental and Coastal Hydroinformatics

F1. Coastal and water quality modelling
F2. Surface and ground water modeling
F3. Integrated Water Resources Management
Call for Sessions (to be released in a few days)

Format of Special Sessions
To best align special sessions with the conference program, their preferred duration should be multiples of 75 minutes. The format is open and should correspond to the goal of the special sessions. For example, it could be: a dedicated special session, with invited presenters and authors only, serving to facilitate discussion among the leading experts, collaborative sessions with presentations of collaborative efforts of researchers or working groups, or of large transdisciplinary projects, poster sessions on a particular subject, potentially accompanied with flash presentations.

How Can I Convene a Special Session?
Special sessions can be proposed by any conference participant, who is ideally representing a technical/scientific interest group. Each special session should have one convener and one to three co-conveners from at least two different institutes and countries. Also both gender diversity as well as the inclusion of early career scientists/young professionals is encouraged.
Call for Sessions (to be released in a few days)

Responsibility of Conveners
Conveners and co-conveners will be responsible for the review and selection of submitted papers, as well as for the chairing of their special session.

Special session proposals should contain:
• Title of the special session
• Conference Theme and sub-theme that better suite the special session
• Names of the convener and co-conveners including affiliations
• Description of the special sessions topic including novelty / innovation, topicality, benefits to the audience, and the future impact on the field of water and environment (max 2000 characters)
• Targeted group of participants (max 1000 characters)
• List of potential contributors (including affiliation)
• Proposed format of the special session including the duration (max 500 characters)

The proposal can only be submitted via E-mail to info@hic2018.org and gabriele.freni@unikore.it Deadline: 10 July 2017
Italy without Sicily leaves no image on the soul: here is the key to all.

Palermo, April 13 1787.

Johann Wolfgang von Goethe, Italienische Reise (Italian Journey), published in 1816
See you in Palermo for HIC2018
1st – 6th July 2018