



**HIC 2018**

13<sup>TH</sup> INTERNATIONAL CONFERENCE  
ON HYDROINFORMATICS

**13TH**  
**INTERNATIONAL**  
**HYDROINFORMATICS**  
**CONFERENCE**  
**HIC 2018**

**1-6 JULY 2018 | PALERMO | ITALY**

**CALL FOR ABSTRACTS**



# CALL FOR ABSTRACTS HIC 2018

**The 13th International Conference on Hydroinformatics, HIC2018 “Water and environmental challenges in a changing world” will be held in Palermo (Italy), 1 – 6 July 2018.**

## **INTRODUCTION TO THE CONFERENCE**

The University of Palermo and the University of Enna “Kore” are pleased to invite the hydroinformatics international community to the 13th International Conference on Hydroinformatics (HIC 2018). Hydroinformatics is a branch of informatics which concentrates on the application of information and communications technologies (ICTs) in addressing the increasingly serious problems of the equitable and efficient use of water for many different purposes. Hydroinformatics scientific community is continuously growing and its interests are widening from numerical modelling to the development of new sensors and tools, the interpretation of increasing amounts of data, the analysis and management of complex systems, the integration of models, data and controls for practical applications. Today, multi-disciplinarity is the key for the sustainable management of water resources. The work of the IAHR/ IWA Joint Committee on Hydroinformatics and of several International Water Association Specialist Groups has demonstrated the importance of knowledge integration among scientists, practitioners and technology experts in order to tackle the complex challenges of water management in a changing world. HIC 2018 seeks to create a forum for exchanging ideas, for promoting ground-breaking technologies, for proposing new extensive collaborations, for finding new solutions for water management and environment preservation.

## ABSTRACT SUBMISSION INSTRUCTION

Authors are invited to submit a 4-page extended abstract which will include introduction, material and methods, results and discussion, conclusions and references. To be accepted for the Conference, the submissions must report work that is novel, well described, and suited to the Conference themes. Submissions must contain original data and meet international ethical standards.

Selection criteria include high technical quality, relevance to the conference themes, and significant information content. Abstracts that are deemed commercial in nature will not be accepted.

To submit your abstract please follow the steps outlined below:

1. Abstracts must be submitted by October 15th, 2017
2. Abstracts must follow the guidelines provided in the abstract template
3. Abstracts will be accepted in English only
4. Abstracts will be reviewed and Authors will be notified of review results by 15 November 2017
5. Please name the file "HIC2018\_Your surname" (e.g. HIC2018\_Smith.pdf)
6. Do not add page numbers
7. Upload file as pdf document

To download the abstract template and submit your contribution, please visit the HIC2018 conference website at [www.hic2018.org](http://www.hic2018.org)

Should you have any questions, do not hesitate to contact us.

### 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

#### 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

#### 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

#### 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

## EARLY BIRD REGISTRATION

Up to 1st of May 2018

IAHR / IWA Members .....	€ 680
Non IAHR / IWA Members .....	€ 780
Students and YWP IAHR / IWA Members .....	€ 300
Students and YWP non IAHR / IWA Members .....	€ 350
Low income country Students and YWP IAHR / IWA Members .....	€ 250
Low income country Students and YWP Non IAHR / IWA Members .....	€ 300
Low income country IAHR / IWA Members .....	€ 500
Low income country Non IAHR / IWA Members .....	€ 600
Accompanying person .....	€ 250

## LATE REGISTRATION

Up to 20th of June 2018

IAHR / IWA Members .....	€ 780
Non IAHR / IWA Members .....	€ 880
Students and YWP IAHR / IWA Members .....	€ 400
Students and YWP non IAHR / IWA Members .....	€ 450
Low income country Students and YWP IAHR / IWA Members .....	€ 350
Low income country Students and YWP Non IAHR / IWA Members .....	€ 400
Low income country IAHR / IWA Members .....	€ 600
Low income country non IAHR / IWA Members .....	€ 700
Accompanying person .....	€ 250

## IMPORTANT DEADLINES

### 31 JULY 2017

Deadline for special session proposal

### 15 OCTOBER 2017

Deadline for abstract submission

### 15 NOVEMBER 2018

Notification of acceptance

### 15 FEBRUARY 2018

Deadline for full-paper submission

### 15 FEBRUARY 2018

Deadline for short course proposal

### 1 MAY 2018

Deadline for submitting final paper version

### 1 MAY 2018

Early bird registration ends

**13TH  
INTERNATIONAL  
HYDROINFORMATICS  
CONFERENCE  
HIC 2018**



International Association  
for Hydro-Environment  
Engineering and Research

*Supported by*  
Spain Water and IWHR, China



UNIVERSITÀ  
DEGLI STUDI  
DI PALERMO



UNIVERSITÀ  
DEGLI STUDI  
DI ENNAKORE