



HIC 2018

13TH INTERNATIONAL CONFERENCE
ON HYDROINFORMATICS

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CONFERENCE
HIC 2018

1-6 JULY 2018 | PALERMO | ITALY

1ST CALL FOR PAPERS



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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

HIC is a well-established series of bi-annual Hydroinformatics conferences started in the early nineties and it is supported by two world-leading international organizations:

- IAHR (International Association of Hydro-Environment Engineering and Research)
- IWA (International Water Association)

The Conference always gathers scientists and practitioners from many countries in the world. The average number of participants in the last three editions is greater than 300 from more than 80 countries in the world and from all continents. The Conference is always occasion of lively discussion providing a perfect environment for technical and scientific collaboration. 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.

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) which 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.

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

PAPER SUBMISSION

Authors are invited to submit a full paper of 8 pages maximum no later than March 1st, 2018 through the EasyChair submission system. All submitted papers should report original, previously unpublished research results, experimental or theoretical. All manuscripts will be subjected to peer-review and are expected to meet the scientific criteria of significance and academic excellence. The review process will be handled by a member of the Scientific Committee. Notification of reviews will start upon completion.

The authors will be invited to submit the final version of the paper by 1st May 2018.

The submitting author is responsible for ensuring that the paper's publication has been approved by all the other co-authors and takes responsibility for the paper during

submission and peer review. Papers should be submitted as a *.docx or *.doc file.

For your convenience a template is available at www.hic2018.org. We strongly recommend typing your paper over the template to ensure that all contributions have the same style in the final publication.

The proceedings of the conference will be published on line in the Epic Series in Computing with individual DOI. Selected papers from HIC 2018, after authors agreement and further revisions, will be published in the special issue of the following journals:

- Journal of Hydroinformatics
- Water Science and Technology
- Water Science and Technology: Water Supply
- Water Practice and Technology

Should you have any questions, do not hesitate to contact us: info@hic2018.org

BEST STUDENT PAPER AWARDS

The HIC 2018 sponsored Best Student Paper Awards is designed to encourage and acknowledge excellence in student paper presentations. Six special students award sessions will be planned, one for each of the general themes of the conference. An evaluation panel will be created for each Student Special Session.

The evaluation panel will consist of five members selected by the Conference Steering Committee among the chairs of the sessions of each general theme.

The winners will be announced at the conclusion of the Gala Dinner. HIC will announce the winners on the HIC 2018 website.

Details about the selection and evaluation criteria are available at www.hic2018.org.

IMPORTANT DEADLINES

1 MARCH 2018

Deadline for Full-paper Submission

1 MAY 2018

Deadline for submitting Final Paper Version

1 MAY 2018

Early bird registration ends

20 JUNE 2018

Late Registration ends

1-6 JULY 2018

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International Association
for Hydro-Environment
Engineering and Research

Supported by
Spain Water and IWHR, China



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