

2017 IEEE International Conference on Industrial Informatics

Special Session/ Organized Session on

“Information and Communication Technologies for Smart Water Management Systems (ICT4SWMS)”

organized by

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Call for Papers

Theme: In the last few decades information and communication technologies (ICTs) have played a critical role in water management systems. To address various water crises, many initiatives (systems, techniques, models, algorithms, etc.) have been introduced to enhance water sustainability, efficiency and accessibility via ICTs. Sensor and actuator networks, Internet of Things, satellite remote sensing, cloud computing, semantic sensor web, geographical information systems, modelling and analytics, data acquisition, integration, dissemination, processing and storage, management and control, visualization and decision support, just to mention a few, can be used innovatively to enable smart water management systems.

The main objective of this special session is to highlight how ICTs can be incorporated with SWMS to address some water crises. Researchers, practitioners, industrialists are invited to present and discuss cutting-edge research in the area of ICT4SWMS.

Apart from smart water system, ICTs plays critical role in various domains, such as smart grid, smart cities, smart agriculture, industrial system, etc. Various ICTs systems that have been developed for these domains can be still used or adapted to the smart water system. Therefore, this special session will also consider ICTs systems, techniques or algorithms that have been developed for other domains with a potential to be also used in smart water system.

Topics of interest include, but are not limited to:

- Internet of Things (IoT) for Smart Water Management
- Big data application for Smart Water Management
- Heterogeneous Sensor and Actuator Networks for Real-time Monitoring and Control
- Communication Systems for smart Water Grid
- Real-Time Control and Decision Support System
- Real-time Risk Assessment and Management
- Water-Information Technology
- Modelling and Monitoring for Water Management

- Water Demand Forecasting
- Advances in and Application of Data-driven Modelling in Water Sciences
- Water Loss Management
- Leakage Detection and Localisation Algorithms/Systems
- Smart Pressure Management System
- ICT (tools, services, social applications, etc.) for Behavioural Change Models and Saving Tips
- GIS-MIS Integration
- Satellite remote sensing for water systems
- Hydrodynamic Modelling
- Case studies and pilots of Water Management Systems
- Water and Wastewater modelling, management and control
- Water security
- Security of the water systems
- ICTs tools, services, systems or techniques that have been developed for non-water systems but they could be applicable to the water system

Submissions Procedure: All the instructions for paper submission are included in the conference website <http://www.indin2017.i2ar.de>

Deadlines:

Deadline for submission of papers:	March 28, 2017
Notification of acceptance of papers:	May 5, 2017
Final manuscripts due:	June 2, 2017

IES Technical Committee Sponsoring the Special Session:

Technical Committee on Cloud and Wireless Systems for Industrial Applications.