4th IEEE World Forum on Internet of Things (WF-IoT 2018)

Theme: Smart Cities & Nations

2sd Workshop on Energy Efficient solutions based on IoT EESIoT 2017 (in conjunction with WF-IoT 2018)

Organizing Committee

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- Javier Royo OrbEEt project
- Gianni Minetti (Paradox Engineering, Switzerland)

Paper Submission Guidelines

All final submissions should be written in English with a maximum paper length of six (6) printed pages see web conference for instructions. Papers must be submitted through EDAS. See conference web page for instructions:

Call for Papers

Energy saving is based heavily on the design and development of novel energy efficient solutions. Information and Communication Technologies (ICT) and Internet of Things (IoT) could be instrumental in the use of abatement technologies that address energy consumption inefficiencies. On the one hand, integration with ICT technologies is one of the main drivers for the buildings' industry to meet the 2050 long term goals for achieving the decarbonisation goal for the European economy. On the other hand, Internet of Things (IoT) can bring direct efficiency gains and can enable behavioural change based on measuring, monitoring, intelligent management and control of energy consumption data, as well as through providing reliable data to citizens, industries and governments about energy consumption / carbon emissions

In order to exploit this potential, innovative solutions have to be implemented upon properly understanding the main energy consuming factors, as well as energy consuming trends, including the citizens' behaviour with regards to energy efficiency. However, it should be noted that even with full-scale deployment of novel and energy efficient ICT solutions, without the right incentives or motivation to change, behaviour can be a major barrier to adoption. Thus, the deployment of energy efficient ICT solutions has to be accompanied with active engagement of the buildings' occupants towards the goal to increase the overall environmental friendliness of the buildings. This can be achieved by increasing the overall awareness of consumers regarding the main causes of energy consumption, the impact on the environment, the potential for energy and cost savings, as well as providing the proper motives for changing their daily lifestyle in order to achieve better life quality.

This workshop aspires to be a forum of discussion between different stakeholders, researchers, industries etc., in order to present the most recent advances in the area of ICT- and IoT-based Energy Efficiency solutions. It will also promote the collaboration and mutual exchange of experiences between researchers. The presence of researchers from EU funded projects will be promoted although it is open to all kind of contributions.

The technical topics of interest include, but are not limited to:

- Data management, fusion and knowledge extraction, including semantic models
- Open/Linked Data Production and Consumption for energy efficient ICT services

http://wfiot2018.ieee-wf-iot.org/authors/

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Important Dates

Workshop or special session paper submission Due Date: Sept 30, 2017
Paper acceptance notification: November 15, 2017
Camera-ready submission: December 15, 2017

- Behavioural and Energy Consumption Analytics
- Novel network infrastructures
- Smart metering infrastructures
- Wide area management and monitoring systems
- Networking protocols for low-power devices
- Methodologies for studying and analyzing smart buildings' performance
- Pilot applications and experiences in both public and private buildings
- IoT-based gamification services for behavioral change towards energy efficiency
- Design guidelines for IoT-based energy efficient services
- IoT-based personalized services towards energy efficient lifestyle
- IoT for Energy-related issues in Education
- Mobile CrowdSensing Mechanisms for energy efficiency
- IoT and Smart Data-based intervention services for energy-efficient lifestyle and behavioural change
- Energy efficient electrical appliances: data exchange standards, interoperability, security
- Societal impact of Big Data on energy efficiency, sustainability and environment

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