

International Workshop on E2IoT 2015: Energy Efficiency in the Internet of Things, and Internet of Things for Energy Efficiency

www.e2iot.com

In conjunction with WCNC-2015 International IEEE Conference <http://wcnc2015.ieee-wcnc.org/>
New Orleans, LA, USA – 9th-12th March 2015

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Submission Guidelines

All submissions to E2IoT should be written in English, including figures and references, using 10 font size, and numbering each page, **6 pages** are the limit.

Proceedings of E2IoT-2015 will be published by IEEE Xplore, and included in the IEEE WCNC proceedings.

Only PDF files will be accepted.

All submissions must be done through:

<https://www.edas.info/newPaper.php?c=18637>

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Overview:

This workshop aims at gathering researchers and developers from the fields of Internet of Things, Pervasive, Ubiquitous Computing and Green ICT to discuss the possibilities of new applications and services which decrease the carbon footprint of IoT, and which exploit IoT to reduce the carbon footprint of our society.

The evolution of ICT has led to the diffusion of wireless personal devices, such as smart mobile phones, personal computers and wearable devices, designed to operate over the Internet. This, together with the exponential growth of the number of interconnected devices is leading towards the commonly called Internet of Things (IoT).

Presently, a large share of the total energy consumption of the Internet takes place at the edge. This share is increasing with the progressive deployment of the IoT, which is reshaping the edge of the network, and which in the near future is bound to generate the large majority of traffic on the Internet.

Though usually small and not power hungry, the sheer number of the devices composing the IoT will make them the highest contributors to total energy consumption in the ICT sector.

For meeting the challenge of a greener Internet, therefore, a greener IoT is fundamental. This involves elaboration of new approaches at the device level (energy efficient, energy proportional devices) as well as at the system level (algorithms for energy efficient network services as well as application layers services provisioning).

On the other side, the pervasiveness of sensing and computing capabilities in IoT is enabling a wealth of new applications for energy efficient management in almost all domains of human activity, from transportations to lighting, from waste management to the smart grid.

For more information visit: www.e2iot.com

Topics are the following:

Energy efficient Internet of Things

- Architectures and Middleware for energy efficiency in IoT
- Energy-efficient sensing
- Energy-efficient data and event management schemes
- Energy-efficient fault tolerant networking
- Energy-efficient Publish / Subscribe techniques
- Energy-efficient End to End / Machine to Machine (M2M) protocols
- Energy-efficient internetworking between Cloud computing and things
- Energy-efficient hardware/software building blocks
- Energy-efficient system design, engineering and integration for IoT
- Energy-efficient Security, trust and Privacy in IoT
- Experimental results of Green IoT solutions
- Fog Computing
- In-network processing
- Cloud Computing and Internet of Things integration
- Standards and regulations

Internet of Things for Energy Efficiency

- IoT for minimization of the energy consumption of other systems, including transportation, houses, buildings, industrial processes, and smart cities.
- Energy efficient cloud computing, smart grids and emerging applications,
- Sensor networks for energy efficiency in industrial/harsh environments
- Vehicular networks to reduce the CHG emissions
- IoT systems for a sustainable and green world
- Energy efficient virtualization of resources
- Energy efficient smart homes and energy monitoring
- Applications in smart grids and smart and sustainable cities
- Optimization of smart, homes, cities, societies, and networks
- Collaborative environment
- Crowd-energy

Important Dates:

Submission deadline:
November 30th, 2014

Acceptance Notification:
December 15th, 2014

Final Manuscript:
January, 10th 2015

Registration deadline:
January, 10th 2015

Workshop dates:
Marc, 9th-12th 2015

This Event is technically supported by the IEEE Communications Society Internet of Things Emerging Technical Committee:



Co-organized by:

Hes-so

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