

Energy Efficient Systems

Special Session @
IEEE International Conference on Systems, Man and Cybernetics (SMC)

(<http://www.smc2013.org/>)

October 13 - 16, 2013
Manchester, UK

With the rapid technological advancements in ICT there is an increasing concern about the rising cost of energy and the significant impact of the ICT industry as a contributor to global CO₂ emissions. It is estimated that ICT consumes 7.8% of all energy produced, which is expected to grow to 10.5% by 2015. This is a financial, political, regulatory and ethical issue, which also raises significant questions about the overall environmental sustainability of ICT as its uptake increases.

To date little is known about how to incorporate CO₂ emissions and energy consumption into system or application development and deployment models. This special session on Energy Efficient Systems will bring the opportunity for researchers to present the state of the art and exchange ideas about energy efficiency and reducing CO₂ footprint of ICT applications, systems as well as underlying infrastructure.

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Session Format

This session will be composed of two tracks. The first track will be reserved for paper presentations. The second track will be used for discussions and brainstorming with the aim to gather opinion from participations and draw directions and potential for future research in the area of energy efficient systems.

Paper Submission

Papers can be submitted to special session via the main conference submission system on SMC 2013 website. All papers will undergo same review process and accepted papers will be published in IEEE proceedings.

Manuscripts for a Special Session should NOT be submitted in duplication to any other regular or special sessions.

Important Dates

Paper Submission: 15th April 2013

Author Notification: 30th Jun 2013

Early Registration: 31st July 2013

Final Submission: 31st July 2013

Conference: 13 -16 October 2013

Website: <http://eco2clouds.eu/ees>

Topics of Interest

Topics of interest include but are not limited to:

- Energy efficient application and system design
- Energy efficient application deployment strategies
- Green Computing
- Approaches to minimize energy consumption of applications and systems
- Optimization and adaptation models for energy efficiency
- Methods and techniques for quantification of energy consumption and environmental impact of applications and systems
- Methodologies and tools to support energy efficiency in large scale data centers and cloud
- Energy management in ICT infrastructure

In association with

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