Call for Papers

2nd International Workshop on
Energy-Efficient Data Centres
Co-located with the ACM e-Energy 2013, the Fourth
International Conference on Future Energy Systems
(e-Energy 2013)
May 20, 2013 - Berkeley, CA
http://conferences.sigcomm.org/eenergy/2013/

Important Dates

Paper submission (full papers): January ~~15~~ 25, 2013

Notification of acceptance: March 19, 2013

Submission of camera-ready papers: April 7, 2013

Workshop Chairs

Xavier Hesselbach-Serra, Universitat Politecnica de Catalunya, Spain

Sonja Klingert, University of Mannheim, Germany

Giovanni Giuliani, HP Italy Innovation Centre, Italy

Maria Perez-Ortega, GFI, Spain

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Wolfgang Ziegler (SCAI Fraunhofer, Germany)

Climate change poses new challenges to everyone. By now it is well-known that the world wide average temperature will probably rise by more than 2°C causing some regions to get barren and others to be flooded, unless all areas of economic activity contribute to a substantial reduction of greenhouse gas emissions. It is also well-known that ICT alone is responsible for about as many emissions as the total of aviation – maybe even more in future. What is less well-known is that the data centres' carbon footprint is continually gaining weight within the total of ICT; steadily increasing due to an overall trend of outsourcing computing power and the world's tendency to create and move around more data every single day.

This situation is a challenge for many experts working in the field of GreenIT, which is why E^2DC was started last year. It specifically targets the environmental impact of data centres from a software as well as hardware perspective, thinking locally and globally. The scope spans technological solutions as well as new business models. It addresses researchers from academia, but in order to foster collaboration between academia and industry and to increase the overall impact, a strong industrial track is also planned.

The workshop invites original papers that were not previously published and are not currently under review for publication elsewhere. Topics include, but are not limited to:

- Energy-aware communication and network solutions
- Energy-aware cloud and high performance computing
- Energy-aware data storages and reservoirs
- Scalability of federated data centres
- Large scale simulations
- Energy-aware data centre infrastructures and architectures
- Novel business models of green ICT and data centres
- Energy optimization algorithms and models
- GreenSLAs
- Green computation and services
- Green standardization
- "Big data" in energy efficient data centres
- New metrics for green data centres

Submission and publication of the work

The workshop will be co-located with the ACM conference e-Energy 2013, to be held May 21-24 in Berkeley, U.S.A. Manuscripts will be submitted via easychair. The format must follow Springer LNCS style. Accepted papers will again be published with Springer LNCS and in the Springer LNCS Digital Library.