

# Call for Papers



[3<sup>rd</sup> International Workshop on Energy-Efficient Data Centres](#)

Co-located with the [ACM e-Energy 2014](#), the Fifth International Conference on Future Energy Systems (e-Energy 2014)

June 10, 2014 - Cambridge, UK

## Important Dates

*Paper submission:*  
February 28, 2014

*Notification of acceptance:* April 18, 2014

*Submission of camera-ready papers:* May 9, 2014

## Workshop Chairs

Sonja Klingert, University of Mannheim, Germany

Marta Chinnici, ENEA, Italy

Milagros Rey Porto, Gas Natural, Spain

## Technical Programme Committee

*Hermann de Meer* (University of Passau, Germany)

*Daniel Gmach* (HPLabs, USA)

*Jorjeta Jetcheva* (Fujitsu Laboratories of America, USA)

*Paul Kühn* (University of Stuttgart, Germany)

*Eric Madeleine* (INRIA, France)

*Maria Perez Ortega* (GFI, Spain)

*Mary Ann Piette* (Lawrence Berkeley National Laboratory, USA)

*Barbara Pernici* (Politecnico di Milano, Italy)

*Gunnar Schomaker* (OFFIS, Germany)

*Shaolei Ren* (Florida International University, USA)

*Tomasz Siewierski* (Technical University of Lodz)

With the total consumption of data centres worldwide surpassing the energy consumption of, among others, countries like Sweden, investing into the energy efficiency of data centres means to invest into the future, both of the planet and of the data centre. This is a challenge that the international workshop on energy efficient data centres E<sup>2</sup>DC takes up for the third time in 2014: Increasing the energy efficiency of data centres is a first step at decoupling the rising need for communication and computation from the ecological footprint of data centres.

In the last two workshops of the E<sup>2</sup>DC series a variety of starting points to do this were identified by researchers of academia and industry: Whereas formerly the focus was on enhancing the IT equipment and cooling, later the software running in the data centre and the way that workload is being processed turned out to be also key. Some of last year's contributions broadened the scope and dealt with the adequacy of data centres for demand response approaches.

Going a step forward, this year E<sup>2</sup>DC will additionally center on the optimization of the efficiency in the energy supply and on data centres in the context of smart cities. Topics will not be confined to technical solutions only but extend to issues regarding the economic viability of the proposed solutions, addressing researchers from both industry and academia.

The workshop invites original papers of 12-15 pages that were not previously published and are not currently under review for publication elsewhere. Topics include, but are not limited to:

- Integration of data centres in smart cities
- Demand response strategies in data centres
- Optimizing the use of renewable energy sources in data centres
- New metrics for green data centres
- Energy-aware communication and network solutions
- Energy-aware data centre infrastructure and architectures
- Energy-aware cloud and high performance computing
- Energy-aware data storages and reservoirs
- Scalability of federated data centres
- Novel business models of green ICT and data centres
- Energy optimization algorithms and models
- GreenSLAs and other green data centre contracts
- Green computation and services
- Standardization for eco-efficient data centre management
- Big data and large scale simulations in eco-aware data centres

## Submission and publication of the work

The workshop will be co-located with the ACM conference e-Energy 2014, June 11-13 in Cambridge, UK. Manuscripts will be submitted via [easychair](#). Also this year, papers will be published with [Springer LNCS](#). Submission implies the willingness of, at least, one author to register and present the paper at E<sup>2</sup>DC. The organizers reserve the right to exclude a paper from publication if it is not presented. For more information please contact [klingert@informatik.uni-mannheim.de](mailto:klingert@informatik.uni-mannheim.de).

# Call for Papers



## [3<sup>rd</sup> International Workshop on Energy-Efficient Data Centres](#)

Co-located with the [ACM e-Energy 2014](#), the Fifth International Conference on Future Energy Systems (e-Energy 2014)

**June 10, 2014 - Cambridge, UK**