

Call for Papers



[4th International Workshop on Energy-Efficient Data Centres](#)

Co-located with the [ACM e-Energy 2015](#), the Sixth International Conference on Future Energy Systems

July 14, 2015 - Bangalore, India

Important Dates

Paper submission:

March 1st, 2015

Notification of

acceptance: April 20th, 2015

Submission of camera-ready

papers: May 15th, 2015

Workshop Chairs

Sonja Klingert, University of Mannheim, Germany

Gunnar Schomaker, Software Innovation Campus Paderborn, Germany

Fabien Hermenier, University Nice Sophia-Antipolis, France

Technical Programme Committee

Marta Chinnici, (ENEA, Italy)

Hermann de Meer, (University of Passau, Germany)

Daniel Gmach (HPLabs, USA)

Jorjeta Jetcheva (Fujitsu Laboratories of America, USA)

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Jean-Marc Menaud (Ecole des Mines de Nantes, France)

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Barbara Pernici (Politecnico di Milano, Italy)

Jean-Marc Pierson (University of Toulouse, France)

Tomasz Siewierski (Technical University of Lodz)

One challenge of society is to reach the United Nation's max 2°C-climate change goal, which means to reduce at least 80% of anthropogenic CO² emissions. With an increasing share of global industry's carbon footprint data centres have a high responsibility towards this goal.

Innovations like new efficient and energy proportional server generations, energy-aware workload management, or highly responsive data center designs have contributed to slowing down the formerly sharp increase of data centres' energy demand. However, the ongoing global digitization is counteracting this development. E²DC offers the opportunity for researchers of all data centre domains to commonly advance the potential of yet unknown innovations in order to continue the race for sustainability in and by data centers.

The first E²DC workshop was focused on optimizing energy consumption within a data center, the second brought the energy system as new stakeholder into play by suggesting demand response schemes with data centers, and the third opened up further to integrate smart data centers into smart cities. In 2015 E²DC will include an additional perspective: What are the specific energy challenges for data centers in emerging markets? Are there technical and business solutions aimed at the specific characteristics of emerging markets?

Topics will not be confined to technical solutions, but extend to economic issues of the proposed solutions, addressing researchers from both industry and academia.

The workshop invites original papers of 6 pages that were not previously published and are not currently under review for publication elsewhere.

Topics include, but are not limited to:

- Novel green ICT business models and data centres
- Emerging Markets and data centre energy procurement
 - Demand response strategies integrating data centres
 - Optimizing the use of renewable energy sources in data centres
- Smart cities and data centre integration
- Energy awareness by applications and service architectures
 - Communication and network solutions
 - Infrastructure and architectures management
 - Cloud and high performance computing
 - Big data and large scale simulations
 - Data storages and reservoirs
 - Software defined data centre, storage, network, ...
- Metrics and KPIs for green data centres
- Standardization and eco-efficient data centres

Submission and publication of the work

The workshop will be co-located with [ACM e-Energy 2015](#) in Bangalore, India. Please submit your manuscript via [easychair](#) submission portal. Manuscripts will be published in the ACM proceedings and must adhere to [ACM format](#). Submission implies the willingness of at least one author to register and present the paper at E²DC. 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.