CALL FOR PAPERS

Third International Conference on Future Energy Systems: Where Energy, Computing and Communication Meet

May 9-11, 2012 -- Madrid, Spain

http://e-energy2012.networks.imdea.org/

Sponsors:

Organized by:

Important Dates

Full paper due:
January 27, 2012, 23:59 EST
(extended)
Notification of acceptance:
March 25, 2012
Final version due:
April 13, 2012

e-Energy is the conference on future energy systems, where energy, computing and communication meet. The first e-Energy conference was held in April 2010, in Passau (Germany), and the second took place in May/June 2011 at Columbia University, in New York City (USA).

e-Energy 2012 invites submission of two categories of paper: full papers and discussion papers. Full papers should be no longer than 10 pages and discussion papers should be no longer than 4 pages. All papers must present original theoretical and/or experimental research that has not been previously published, accepted for publication, or is not currently under review by another conference or journal.

Submissions must be in PDF-format using the double-column ACM format given at http://www.acm.org/sigs/publications/proceedings-templates

Further submission information can be accessed via http://events.networks.imdea.org/content/e-energy-2012/paper-submission

Proceedings will be published by ACM and will appear in the ACM Digital Library.

Full papers should include a detailed description of research either in progress or completed. A discussion paper describes innovative and novel ideas that have not yet been fully explored, but have the potential to influence the research community. A discussion paper could, for example, expose a new problem, advocate a new approach, re-frame or debunk existing work, report unexpected results from a deployment, or propose new evaluation methodologies. We especially encourage submissions of early-stage work and enticing but unproven ideas. Papers are to be submitted via EDAS: http://edas.info/N11357

Topics of interest include, but are not limited to:

Energy-efficient networking and protocols:

- energy-efficient network architectures
- high-capacity optical transport
- access networks (wired and wireless)
- energy-efficient network components (switches, routers, transceivers, amplifiers, etc.)
- peer-to-peer networking and overlays
- energy, performance, quality of experience trade offs
- sensing techniques and sensor networks for energy efficiency
- energy-efficient data transmission
- security challenges in energy-efficient networking
- instrumentation and measurement of energy-efficient networking

Energy-efficient computing:

- cloud computing and virtualization
- energy-efficient data centers
- energy-efficient application design
- energy-efficient terminal design
- security challenges in energy-efficient computing
- energy and performance trade offs
- design methodologies and tools for energy-efficient services
- instrumentation and measurement of energy-efficient computing

ICT for energy efficiency:

- energy-demand reduction techniques
- demand management in industrial applications
- demand management in domestic applications
- energy monitoring and management
- smart metering and dynamic pricing
- energy-efficient transport and logistics
- energy-efficient buildings

Smart Grids:

- network architecture for future power networks
- networking and computing issues in smart grids
- reliability and power management
- service design and management
- electric vehicles and smart grids
- virtual power plants, distributed generation, microgrids, renewables and storage
- field trials