

Call for Papers
ACM e-Energy 2014
Cambridge, UK, June 11-13 2014

Computing and communication technologies impact energy systems in two distinct ways. The exponential growth in deployment of these technologies has made them large-scale energy consumers. Therefore, new architectures, technologies and systems are being developed and deployed to make computing and networked system more energy efficient.

Additionally, and perhaps more importantly, these technologies are at the center of the on-going revolution in next generation “smart” and sustainable energy systems. They measure, monitor and control energy systems such as the smart grid; inform and shape human demand; aid in the prediction, deployment, storage and control of energy resources; and determine how utilities, generators, regulators, and consumers measure, analyze, and collectively control system elements.

The fifth International Conference on Future Energy Systems (ACM e-Energy), to be held in Cambridge UK in June 2014, aims to be the premier venue for researchers working in the broad areas of computing and communication for smart energy systems (including the smart grid), and in energy-efficient computing and communication systems. By bringing together researchers in a high-quality single-track conference with significant opportunities for individual and small-group interaction, it will serve as a major forum for presentations and discussions that will shape the future of this area.

We solicit high-quality papers in the area of computing and communication for the Smart Grid and energy-efficient computing and communications. We welcome submissions describing theoretical advances as well as system design, implementation and experimentation. ACM e-Energy is committed to a fair, timely, and thorough review process providing authors of submitted papers with sound and detailed feedback.

Relevant topics for the conference include, but are not limited to the following:

- Advances in monitoring and control of smart homes and buildings
- Sensing, monitoring, control, and management of energy systems
- Energy-efficient computing and communication, including energy-efficient data centers
- The impact of storage integration on the smart grid
- Electric Vehicle monitoring and control
- Distribution and transmission network control techniques
- Microgrid and distributed generation management and control
- Modeling, control, and architectures for renewable energy generation resources
- Smart grid communication architectures and protocols
- Privacy and security of smart grid infrastructure

- Innovative pricing and incentives for demand-side management
- Novel technologies to enhance reliability and robustness of energy systems
- HCI for energy monitoring, management, and awareness
- User studies and behavioral change enabled by computing and communication technologies
- Data analytics for the smart grid and energy-efficient systems
- Modeling, management and control of variability and uncertainty in energy supply and demand

Two type of contributions are solicited:

Full papers, up to 12 pages in ACM double-column format, should present original theoretical and/or experimental research in any of the areas listed above that has not been previously published, accepted for publication, or is not currently under review by another conference or journal.

Poster/demo descriptions, up to 2 pages in ACM double-column format showcasing works in progress. Accepted posters/demos will be presented at the conference. Topics of interest are the same as the research topics listed above. Preference will be given to posters/demos where the primary contribution is from one or more students.

Full submission details can be found at the conference website:

<http://conferences.sigcomm.org/eenergy/2014>

Important Dates:

- January 15, 2014: paper submission deadline
- March 21, 2014: Author notification
- April 7, 2014: Camera ready papers due
- June 11-13, 2014: ACM e-Energy conference, Cambridge, UK

Organizing Committee:

- General Chairs: Jon Crowcroft, Richard Penty (U. Cambridge, UK)
- TPC Co-chairs: Jean-Yves Leboudec (EFPL), Prashant Shenoy (U. Massachusetts)