

The Computer Journal

Special Issue on Green Energy Management and Smart Grid

Energy management is an important aspect of cyber-physical interactions, and aims at providing efficient solutions to manage energy resources (e.g. harvesting, allocation transmission, saving and utilization). Due to today's severe energy crisis, green energy management becomes an attractive research topic. Accordingly, smart grid is emerging as a next-generation energy management paradigm and leads the traditional power grid to evolve towards more efficient and reliable networks. The smart grid is defined by the two-way communication of electricity and information to achieve intelligent and efficient energy management. The main objective of this special issue is to provide a platform for researchers, engineers and academics to present their research results and development activities on green energy management and smart grid.

Topics of interest include but are not limited to:

- Green communications and energy system architectures
- Advanced Metering Infrastructure (AMI) and Smart Meters
- Green region-aware area networks, e.g. home area networks (HANs), building area networks (BANs), neighbourhood area networks (NANs), and field area networks (FANs)
- Energy-saving sensor and actuator networks for smart grid
- Smart grid modelling and ubiquitous services
- Ubiquitous service interactions in smart grid
- Cyber-physical interactions in energy and power management
- Security, privacy, and trust management in smart grid
- Demand response management
- Vehicle-to-Grid (V2G), virtual power plant, and microgrids
- Energy efficiency, reliability, availability, and robustness
- Fault-tolerance, and intrusion tolerance in energy management
- Simulation-related issues regarding smart grid communications
- Green communications and networking in energy management and smart grid applications, e.g. home energy management, outage management, distribution management, distribution automation
- Energy management contract experience and technologies
- Tools, systems, applications, and services

Submission Guidelines

Submitted papers should be submitted via The Computer Journal's online submission system, Manuscript Central, at <http://mc.manuscriptcentral.com/compj>. They should be accompanied by a cover letter that clearly states that the submission is for the Special Issue on "Green Energy Management and Smart Grid".

All submitted papers will be peer reviewed according to the usual standards of this journal, and will be evaluated on the basis of originality, quality and relevance to this Special Issue and the journal, and on the basis of clarity and correct use of English.

The submitted papers should be formatted according to the journal style. For more detailed information concerning the requirements for submission, please refer to the journal homepage at: www.oxfordjournals.org/our_journals/computer_journal/for_authors/msprep_submission.html.

Important Dates

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