Call for Papers

ICT accounts for approximately 2% of world CO2 emissions, a figure equivalent to aviation, according to Gartner estimates. In the remaining 98% software counts for both operationalizing the private sector in doing its business and the public sector in supporting the society, as well as delivering end-user applications that permeate personal life of individuals and families. Software can contribute to decrease power consumption (i.e. become greener) in at least two ways. First, by being more energy efficient, hence using fewer resources and causing fewer CO2 emissions. Second, by making its processes more sustainable, i.e. decreasing the emissions of governments, companies and individuals. To this end, enterprise software must be rethought to address sustainability issues and support innovative business models and processes. The special theme of the second edition of GREENS is “Leveraging energy efficiency to software users.” GREENS 2013 brings together software engineering researchers and practitioners to discuss the state-of-the-art and practice in green software, as well as research challenges, novel ideas, methods, experiences, and tools to support the engineering of sustainable and energy efficient software systems.

Topics

GREENS 2013 seeks contributions addressing, but not limited to, the following topics related to greener software engineering:

- Requirements Engineering, architecting and design methods for greener software
- Best practices to increase energy efficiency and sustainability (including software and process improvement)
- Green architectural knowledge, green design patterns
- Monitoring, verification and validation of green software
- Creating user awareness about energy consumption of software applications and services
- Views/visualizations of software/users energy performance
- Tools supporting green decision making and development
- Green metrics, key indicators for energy efficiency, green labels
- Quality & risk assessments, tradeoff analyses between energy efficiency, sustainability and traditional quality requirements
- Business models for green software (incl. Software-as-a-Service and cloud computing)
- Green adaptation of software-intensive systems
- Greening data management
- Challenges for a green software industry
- Return on Investments and economic aspects of green software development
- Case studies and industry experience reports
- Decision making and incentives to invest in greener software

Important Dates

Paper Submission: February 14, 2013
Acceptance Notification: February 28, 2013
Camera-Ready Copy: March 7, 2013

Paper Submission and Publication

Submissions must follow the IEEE formatting guidelines. All accepted papers will be published in the conference electronic proceedings and in both ACM Digital Library and IEEE Digital Library.

All contributions will be reviewed and evaluated based on originality, technical quality and relevance to the workshop theme. Submissions page limit is 8 pages.

The submission and review process will be done using EasyChair
https://www.easychair.org/conferences/?conf=greens2013