

# 2<sup>nd</sup> Workshop on Scalable Solutions for GreenIT (SCALSOL 2012)

<http://scalsol.gforge.uni.lu>

## SCALSOL 2012

Workshop on Scalable Solutions for GreenIT

As part of  
The 12th IEEE International Conference on Scalable Computing and Communications (SCALCOM 2012)  
December, 2012, Changzhou, China

## CALL FOR PAPERS

As part of

The 12<sup>th</sup> IEEE International Conference on Scalable Computing and Communications (SCALCOM 2012)

<http://cse.stfx.ca/~scalcom2012/>

December 17-20, 2012  
Changzhou, China

Submission Deadline: **October 10, 2012 (extended)**

### WORKSHOP DESCRIPTION:

Energy-efficiency is one of the most important issues in nowadays computing and communication systems. Due to the importance of power and energy consumption in these systems, various techniques have been investigated and developed. However, the importance of the topic claims for new solutions able to improve performances and to cope with increasing workload demand. Moreover, the solutions should be able to preserve or even increase its efficiency when the number of resources increases.

The aim of this workshop is to create a thriving atmosphere to exchange new ideas, proposing real practical solutions and discussing challenges in scalable solutions for energy-efficiency in large scale parallel and distributed systems (Cluster, Grid Cloud), information technology and communication.

SCALSOL 2012 will be organized as part of the 12<sup>th</sup> IEEE International Conference on Scalable Computing and Communications (SCALCOM 2012). Technically sponsored by IEEE TCSC Technical Area in Green Computing.

### SCOPE:

The WORKSHOP seeks original contributions in all relevant areas including but not limited to the following topics:

- Scalability of energy-efficient solutions on large-scale parallel and distributed systems, information technologies and communication
- Green design scalability in the CLOUDS (cloud computing and distributed systems)
- Green high density computing and ambient (ubiquitous) computing
- Virtualization techniques for energy-efficiency in large scale distributed systems
- Algorithm designs for energy-efficiency scalable solutions
- Energy-aware scalable resource allocation and load balancing
- Energy-aware scalable scheduling
- Energy- efficient scalable solutions for network services and operations
- Energy-efficient scalable solutions for internet-based computing and applications
- Network models and simulation modules/tools for energy-efficient solutions

- Hardware solutions for energy-efficient large-scale networked systems

### SUBMISSIONS PROCESS:

Authors are encouraged to submit original, unpublished research or overviews on scalable solutions on all aspects of GreenIT. Manuscripts should be limited to 6 pages in the IEEE Computer Society Proceedings Manuscript Style, using two-column, single-space format, with 10-point font size, including figures and references. The contribution should be submitted through the EasyChair Conference System. **IEEE Computer Society will publish accepted papers that are presented at the workshop in the proceedings of SCALCOM-12.** At least one of the authors of each accepted paper must register early to attend the conference, in order for the paper to appear in the conference proceedings. Extended versions of selected papers will be considered for publication in a special issue of **Journal of Cluster Computing - Springer** (pending).

For any questions about paper submission or related to the workshop feel free to contact the workshop organizers.

### IMPORTANT DATES

Submission Deadline: ----- **Oct 10, 2012**  
Author Notification: ----- **Oct 15, 2012**  
Final Manuscript Due: ----- **Oct 31, 2012**  
Workshop Date: ----- **Dec 18, 2012**

### STEERING COMMITTEE:

- Pascal Bouvry, University of Luxembourg (Chair)
- Samee U. Khan, North Dakota State University, USA
- Lizhe Wang, Chinese Academy of Science, China
- Laurence T. Yang, St Francis Xavier University, Canada
- Cheng-Zhong Xu, Wayne State University, USA
- Joanna Kolodziej, Institute of Computer Science, Cracow University of Technology, Poland
- Albert Y. Zomaya, University of Sydney, Australia

### WORKSHOP ORGANIZER(S)

#### General Chair:

**Johnatan E. Pecero**

University of Luxembourg, Luxembourg

#### Program Chair:

**Dzmitry Kliazovich**

University of Luxembourg, Luxembourg

#### Proceedings Chair:

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