

SS5: Energy Efficiency on Datacenters, Networks, and Distributed Infrastructures

■ Call for Papers

The special session is focused on novel contributions to make datacenters and distributed architectures more sustainable. This is a very important topic nowadays, where energy-aware and 'green' management of computing infrastructures play a major role to guarantee a proper utilization of energy resources and provide a sustainable environmental approach for information technology systems.

The relevance to the IEEE CloudNet 2014 scope is clearly indicated by the main topics addressed: distributed (i.e., grid/cloud) infrastructures, networking, and energy-efficiency planning.

The main topics to be covered include:

- Energy-aware measurements, models, monitoring and simulators for datacenters and distributed infrastructures
- Energy-aware strategies for scheduling and planning on distributed infrastructures
- Green datacenter operation
- Green networking: embedded energy-aware in network design and protocols.
- Design and optimization of cooling systems for datacenters
- Solutions for improved resource management on datacenters and distributed infrastructures
- Alternative green energy sources for datacenters: solar energy, waterfall electricity, etc.
- Energy saving in storage, replication, and network access
- Energy-aware smart grid and cloud systems
- Energy-aware software and deployment optimization
- Virtualization techniques for improving efficiency
- Power management techniques and optimization
- Green paradigms for Infrastructure-as-a-Service cloud computing

■ Important dates

Paper Submission: July 3, 2014 (Extended)

Notification of Acceptance: August 1, 2014

Final Paper: August 15, 2014

Submit online at [EDAS website](#) »

■ Session organizers

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Bio: Full Time Professor at Universidad de la República, Uruguay, and researcher in ANII and PEDECIBA, Uruguay. His main research interests are scientific high-performance computing and parallel metaheuristics. He has a Ph.D. in Computer Science (2010) from Universidad de la República, Uruguay. He has published more than 100 papers in impact journals and conference proceedings and served in technical committees of international conferences. He is Editor-in-Chief of International Journal of Metaheuristics, Inderscience Publishers and Guest Editor on Cluster Computing and The Computer Journal.

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