IEEE CloudNet
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IEEE
IEEE COMMUNICATIONS SOCIETY
IEEE CLOUD COMPUTING

IEEE CloudNet'14
Special Session

SS7: NTC 2014: New Tools for the Cloud

Call for Papers

Cloud Computing has emerged as new infrastructure to share services like 'SaaS' (Software as a Service), 'PaaS' (Platform as a Service) or 'IaaS' (Infrastructure as a Service). However different issues remain to improve the usage: resources provisioning and scheduling, network reliability and energy consumption has to be saved as much as possible.

The special session is focused on new tools for the cloud and its use.

This special session addresses different main topics of the IEEE CloudNet 2014 conference: Cloud Traffic Characterization and Measurements, Green Data Centers and Cloud Networking, Mobile Cloud Networking and Cloud Federation and Hybrid Cloud Infrastructure.

The main topics to be covered by this special session include (but are not limited to):

- Energy efficiency in cloud
- Proportional computing in cloud
- Virtual machine management
- Simulation of cloud
- Benchmarks for the cloud
- Heterogeneous execution in cloud, hybrid cloud
- Resources provisioning and scheduling
- Quality of service in cloud
- Cloud network
- Autonomic computing for cloud applications
- Cloud middleware
- Using models at runtime
- Provisioning and brokering tools
- Tools and simulators for the cloud

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: Georges Da Costa is a permanent Assistant Professor in Computer Science at the University of Toulouse. He received his PhD from the LIG HPC research laboratory (Grenoble, France) in 2005. He is member of the IRIT Laboratory. His main interests are related to large-scale distributed systems, algorithmic, performance evaluation and energy-aware systems. He is Work Package leader of the European project CoolEmAll which aims at providing advanced simulation, visualization and decision support tools along with blueprints of computing building blocks for modular data center environment. He is working group chair of the European COST0804 Action on 'Energy efficiency in large scale distributed systems' and working group chair of the COST1305 Action Nesus (Network for Sustainable Ultrascale Computing). His research currently focus on energy aware distributed systems. He serves on several PCs in the Energy aware systems, Cluster, Grid, Cloud and Peer to Peer fields. His research highlights are grid cluster & cloud computing, hybrid computing (CPU/GPU), large scale energy aware distributed systems, performance evaluation and ambient systems.

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Bio: Laurent Lefèvre obtained his Ph.D. in Computer Science in January 1997 at LIP Laboratory (Laboratoire Informatique du Parallelisme) in ENS-Lyon (École Normale Supérieure), France. From 1997 to 2001, he was assistant professor in computer science in Lyon 1 University and a member of the RESAM Laboratory (High Performance Networks and Multimedia Application Support Lab.). Since 2001, he is research associate in computer science at Inria (the French Institute for Research in Computer Science and Control). He is a member of the Inria AVALON team (Algorithms and Software Architectures for Distributed and HPC systems) from the LIP laboratory in ENS-Lyon, France. His research interests focus on Green and Energy Efficient Computing and Networking. He has organized several conferences in high performance networking and computing and he is a member of several program committees. He has co- authored more than 100 papers published in refereed journals and conference proceedings. He participates in several national, European and international projects on energy efficiency in HPC, Clouds and networks.

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Bio: Patricia Stolf is an assistant professor since 2005. She teaches at the Toulouse University (France). She obtained a PhD in 2004 in the LAAS-CNRS laboratory (Toulouse-France) on Tasks scheduling on clusters for remote services with quality of service. She now works in the IRIT laboratory in the SEPIA team and is currently working in the field of distributed algorithms and autonomic computing in large scale distributed systems like grid and clouds. She studies resources management, load-balancing, energy aware autonomic systems and energy and thermal-aware task scheduling. She is involved in different research projects: in the ACTION COST IC0804 "Energy Efficiency in Large Scale Distributed Systems", in the European CoolEmAll project and in the national ANR SOP project.