2^{nd} Call For Papers
2^{nd} Workshop on Planetary-Scale Distributed Systems (W-PSDS 2014)
Collocated with the Symposium on Reliable and Distributed Systems (SRDS)
Nara, Japan, October 6, 2014

Call for Papers

Distributed systems have gained a more prominent role in the everyday life of many people. Additionally, the scale of these systems has also been increasing over the past decade, and systems that interconnect users at a planetary scale are now common place. Users expect these systems to be robust, highly available, safe, and efficient. This leads to the emergence of significative challenges for the scientific community to find solutions that provide all these characteristics. Additionally, other requirements have been emerging recently, namely in the increasing demand to enable users to interact with these system with privacy guarantees for instance.

The goal of the Planetary-Scale Distributed Systems Workshop is to bring researchers and practitioners from the large-scale distributed systems communities to discuss the current state of the art, emerging challenges and trends, as well as novel solutions, implementation and deployment of large scale, and in particular of planetary-scale, distributed systems and applications. The workshop is looking for submissions in the form of papers with no more than 6 pages describing novel contributions and results as well as experiments reports. All submissions will be reviewed by members of the workshop program committee, that will select the best submissions for presentation at the workshop. Papers will appear at the workshop proceedings published in conjunction with the proceedings of SRDS.

Relevant Topics

We are looking for contributions, on the following topics (among others):

- Novel storage organizations for large scale systems (e.g., NoSQL databases, in-memory databases, geo-replicated systems).
- Consistency, reliability, and fault models for large scale distributed systems.
- Data recovery: online and disaster recovery.
- System assumptions for dependability and performance.
- Scaling-out and elasticity with large number of nodes.
- Fully decentralized versus central control architectures.
- Robust and efficient protocols for unstructured overlay networks (epidemic-based dissemination, aggregation, slicing).

- Peer-to-Peer systems, protocols, and applications.
- Large-scale infrastructure technologies (locking, group membership services).
- Cloud computing.
- Grid Computing.
- Smart Grids.
- Security and privacy for planetary-scale distributed systems.

Submissions

We expect submissions from both academia and industry alike, that can cover novel contributions or results, work in progress, experiment reports on any relevant topic for the scope of the workshop. Submission must be written in English, and should be no longer than 6 pages, strictly following the IEEE two-column format. All submissions will be reviewed by members of the workshop program committee, that will select the best submissions for presentation at the workshop. Papers will appear at the workshop proceedings published in conjunction with the proceedings of SRDS.

Workshop Webpage: `http://wpsds14.lsd.di.uminho.pt`

Relevant Dates

- Paper submission: ~~July 1, 2014~~, July 6, 2014
- Authors notification: July 13, 2014
- Camera-ready: July 20, 2014
- Workshop: October 6, 2014

Program Committee

- Ricardo Vilaça (INESC TEC & University of Minho, Portugal) – Co-chair
- João Leitão (NOVA-LINCS & Nova University of Lisbon, Portugal) – Co-chair
- Laura Ricci (University of Pisa, Italia)
- Ricardo Dias (NOVA-LINCS & Nova University of Lisbon, Portugal)
- Luis Veiga (INESC-ID & University of Lisbon, Portugal)
- Bernard Wong (University of Waterloo, USA)
- Miguel Matos (INESC TEC & University of Minho, Portugal)
- Etienne Rivière (Universitè de Neuchâtel, Switzerland)
- Flávio Sousa (Federal University of Ceara, Brasil)
- Fernando Pedone (University of Lugano (USI), Switzerland)
- Henrique Domingos (NOVA-LINCS & Nova University of Lisbon, Portugal)
- Emmanuel Cecchet (University of Massachusetts, USA)
- Enrique Armendariz (Universidad Publica de Navarra, Spain)

- Karl Goeschka (Vienna University of Technology, Austria)
- Thomas Silverston (INRIA, Université de Lorraine, France)
- Razvan Beuran (NICT, Japan)
- Nuno Preguiça (NOVA-LINCS & NOVA University of Lisbon, Portugal)