Fourth Workshop on Planetary-Scale Distributed Systems, W-PSDS
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 providing all these properties while the inherent complexity of these systems grows. The goal of the workshop is to bring researchers and practitioners from the large-scale distributed systems community 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 experimental reports. The organization welcomes contributions from both academia and industry. Industry submission (or submissions with co-authors from industry) should be clearly labelled as to notify reviewers. All submissions will be reviewed by members of the workshop program committee, that will select the best submissions for presentation at the workshop. Regular papers will appear at the workshop proceedings published in conjunction with the proceedings of SRDS.

Topics of Interest

Areas of interest include, but are not limited to, the following:

- 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.

- Security for planetary-scale distributed systems.

Submission Guidelines

Papers must be written in English. 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, 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.

All paper submissions will be handled via Easychair (`https://easychair.org/conferences/?conf=wpsds2016`).

Important Dates

- Submissions Due: July 8
- Authors Notification: July 15
- Camera Ready: July 22
- Workshop: September 26

Program Committees

- João Leitão, NOVA LINCS & Nova University of Lisbon, Portugal)
- Francisco Maia, INESC TEC & University of Minho, Portugal)
- Carlos Baquero, University of Minho
- Alysson Bessani, University of Lisbon
- Annette Bieniusa, Technische Universität Kaiserslautern
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- Valerio Schiavoni, Université de Neuchâtel
- Marc Shapiro, LIP6
- Ricardo Vilaça, LeanXcale
- Jordan West, NOVA LINCS
- Bernard Wong, University of Waterloo

Workshop Venue

The Workshop on Planetary-Scale Distributed Systems will take place on September 26, 2016, in Budapest, Hungary, and is co-located with the SRDS 2016 conference. Additional details can be found in the SRDS 2016 web page at `http://srds2016.inf.mit.bme.hu`.

For further information please send an email to wpsds@di.uminho.pt

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