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 significant challenges for the scientific community to find solutions that strive to achieve all these characteristics at several of the layers that compose such systems.

The goal of the Workshop on Planetary-Scale Distributed Systems (W-PSDS) is to bring together international 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 aims both at discussing new contributions and also to discuss work in progress and recent advances achieved in these fields, as a way to stem interesting and dynamic discussion and foment new collaborations to arise.

The workshop is looking for two distinct types of submissions: i) Regular papers with no more than 6 pages describing novel contributions and results as well as experiments reports; and ii) extended abstracts with no more than 4 pages describing previous results or work on progress in the fields of relevance for the workshop.

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 by IEEE. Extended abstracts will not be published in the proceedings, but they will be provided in printed format to the workshop participants. Authors from accepted regular papers and extended abstracts are expected to make a presentation of their work during the workshop.

Topics of interest include, but are not limited to:

- Data Storage 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).
- Security for large-scale distributed systems.
- Cloud computing.
- Grid computing.

Important Dates:

Papers due: July 8
Notification: July 15
Camera ready: July 20
Workshop: September 30

Committees:

Organizing Co-Chairs:
João Leitão (Nova University of Lisbon, Portugal)
Ricardo Vilaça (INESC TEC & University of Minho, Portugal)

Program Committee:
Nuno Preguiça (Nova University of Lisbon, Portugal)
Enrique Armendariz (Universidad Publica de Navarra, Spain)
Carlos Baquero (INESC TEC & University of Minho, Portugal)
Alysson Bessani (Faculade de Ciências da Universidade de Lisboa, Portugal)
Ricardo Jimenez-Peris (Universidad Politécnica de Madrid, Spain)
Nuno Laranjeiro (University of Coimbra, Portugal)
Flávio Sousa (Federal University of Ceara, Brasil)
João Leitão (Nova University of Lisbon, Portugal)
Fernando Pedone (University of Lugano (USI), Switzerland)

José Pereira (INESC TEC & University of Minho, Portugal)
Emmanuel Cecchet (University of Massachusetts, USA)
Hugo Miranda (Faculade de Ciências da Universidade de Lisboa, Portugal)
Davide Frey (INRIA, France)
Henrique Moniz (Nova University of Lisbon, Portugal)
Karl Goeschka (Vienna University of Technology, Austria)
Carlos Ribeiro (INESC-ID/IST/UTL, Portugal)
Etienne Rivière (Universitè de Neuchâtel, Switzerland)
Paolo Romano (INESC-ID/IST/UTL, Portugal)
Ricardo Vilaça (INESC TEC & University of Minho, Portugal)