



September 22-27, 2019 | Portland, Oregon, USA

ISPCS 2019

International IEEE Symposium on Precision Clock Synchronization
for Measurement, Control, and Communication



CALL FOR PAPERS

www.ispcs.org

Aim & Scope

The objective of the symposium, to be held in Portland, Oregon, is to provide a forum for researchers and practitioners from industry, academia, national laboratories and government involved in the area of Precision Clock Synchronization and Distributed Time-based Applications.

Symposium topics

We welcome paper submissions on all areas of precision clock synchronization and distributed time-based applications. Example topics of interest include but are not limited to:

Distributed applications based on synchronized clocks:

- Software, hardware, and system architecture
- Time-based programming models
- Design environments and tools
- Distributed algorithms using or based on synchronized clocks
- Robustness of distributed time-based systems
- Fault tolerance in distributed time-based systems
- Security in distributed time-based systems
- Application requirements studies
- Case studies and field experience
- Analytic, modelling, and simulation studies
- Time-based cyber-physical systems
- Time synchronization for robotics and control
- Time synchronization for cloud computing infrastructure
- IaaS Data Plane & PaaS Control/Management Plane

Clock synchronization technology:

- Design, usage and research concerning IEEE 1588
- Systems with heterogeneous synchronization technologies
- Synchronization performance test and evaluation tools
- Analytic, modelling, and simulation studies
- Clock system management
- Timing security and robustness
- Synchronization over gigabit, fiber, and wireless networks
- Local and wide-area synchronization
- Servo design for slave clocks
- Device design and application support
- Conformance testing and system integration issues
- Time and frequency distribution
- Emerging and potential markets, e.g., smart grid, high-frequency trading, and other applications of PTP
- Work-In-Progress reports

Submission of Papers

Authors should submit a six-page original manuscript (except for Special Industry Session). Submission instructions will be posted on the conference website. Papers must follow the standard IEEE Manuscript Templates for Conference Proceedings.

http://www.ieee.org/conferences_events/conferences/publishing/templates.html

Special Industry Session

Industry Session papers will be presented as slides at the conference only. Only a one to two page abstract submission is required rather than a full paper submission. While not published in the ISPCS Proceedings, presentation slides will be posted on the ISPCS website after the conference, as they are for the full paper presentations.

Work in Progress Papers

Work in Progress (WIP) papers will be reviewed and presented in a poster session.

Paper Acceptance

All papers will be peer-reviewed. Each accepted paper must be presented at the conference by one of the registered authors. The final manuscript must be accompanied by the registration form and proof of payment.

Final Papers

Final papers are limited to six pages or less in IEEE double column format. Full papers are accepted in IEEE compliant PDF format. All full papers will be published in the conference proceedings and on IEEE Xplore.

May 6, 2019

Deadline for Submission
of Regular Papers

June 17, 2019

Acceptance notice and WIP
paper submission deadline

July 19, 2019

Final written materials to be
published in proceedings

