- ◆ Hardware/Software Architecture
- ◆ Real-time Operating Systems and Scheduling
- ◆ Real-time Programming Languages and Software
- ◆ Reliability, Safety, and Fault Tolerance
- ◆ Performance Evaluation
- ◆ Real-time Sensing and Control
- ◆ Robotics and Integrated Manufacturing
- ◆ Case Studies

RTSS 2019
40th IEEE Real-Time Systems Symposium
3rd -6th December 2019,
Hong Kong, China
Sponsored by the IEEE Computer Society
Technical Committee on
Real-Time Systems

http://2019.rtss.org/

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Program Chair:
X. Sharon Hu
University of Notre Dame

Track Chair:
Liliana Cucu-Grosjean
Inria

General Chair:
Robert I. Davis
University of York

Local Organizer:
Nan Guan
The Hong Kong Polytechnic
University

Important dates:
Submission deadline (FIRM):
Thursday May 30th 2019

Rebuttal period:
Mon 15th - Fri 19th July 2019

Notifications:
Mon 5th August 2019

Camera Ready:
Thurs 12th Sept 2019

Hot Topics Day:
Tues 3rd Dec 2019

Conference:
Wed 4th - Fri 6th Dec 2019

CALL FOR PAPERS

The IEEE Real-Time Systems Symposium (RTSS) is the premier conference in the field of real-time systems, and is a venue for researchers and practitioners to showcase innovations covering all aspects of real-time systems, including theory, design, analysis, implementation, evaluation, and experience. RTSS'19, celebrating the 40th anniversary of the event, continues the trend of making RTSS an expansive and inclusive event, striving to embrace new and emerging areas of real-time systems research.

RTSS'19 welcomes submissions of high-quality, original research papers related to both real-time system theory and practice. Submissions can go to either the real-time system track (**Track 1**) or the design and application track (**Track 2**) which covers Cyber-Physical Systems, HW-SW integration and system-level design, and Internet of Things (IoT). Details of the tracks can be found at www.rtss.org. **To be in scope, ALL submissions must address some form of real-time requirements such as deadlines, response times or delays/latency.**

RTSS'19 especially welcomes new and emerging topics provided that they address some aspects of real-time requirements as stated above. Such topics may include machine learning techniques for design and analysis of real-time systems, system design approaches for achieving real-time machine learning, resource management in autonomous systems, system-level solutions for real-time applications exploiting domain-specific accelerators, etc.

PAPER SUBMISSION

Submitted papers must describe original work not previously published or concurrently submitted elsewhere. The main body of each submitted paper is limited to **11 pages of technical content** with **additional pages permitted for the bibliography only**. Submissions must be formatted according to IEEE conference paper guidelines. More details can be found at the submission instruction link. All submitted papers must comply with the **double-blind submission** requirements.

AWARDS

A selection of papers will receive recognition as **outstanding papers**, and will be highlighted as such in the conference proceedings. **Best paper** and **best student paper awards** will be presented at the conference, along with an award for the **best presentation**. Authors of outstanding papers will be invited to submit an extended version of their work to a special issue of a journal.

CONFERENCE HIGHLIGHTS

RTSS'19 introduces a new event, **Hot Topics Day**, to showcase new trends and developments related to the real-time system field. Hot Topics Day includes special sessions, tutorials, as well as half-day and full-day workshops. The conference also includes a **Brief Presentations session** and **RTSS@Work demonstrations.**

PROCEEDINGS

The conference proceedings will be published by IEEE and indexed through IEEE Xplore.

VENUE: RTSS'19 will be located in Hong Kong, China.