- 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 2018
39th IEEE Real-Time Systems Symposium
11th -14th December 2018,
Nashville, Tennessee, USA
Sponsored by the IEEE Computer Society
Technical Committee on
Real-Time Systems
http://2018.rtss.org/

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Program Chair:
Robert Davis
University of York / Inria

Track Chair:
Tulika Mitra
National University of
Singapore

General Chair:
Isabelle Puaut
Université de Rennes 1 / IRISA

Local Organiser:
Aniruddha (Andy) Gokhale
Vanderbilt University

Important dates:

Submission deadline (FIRM):
Thurs 31st May 2018

Rebuttal period:
Mon 16th – Fri 20th July 2018

PC Meetings:
Fri 27th July 2018

Notifications:
Fri 3rd August 2018

Camera Ready:
Fri 21st Sept 2018 (tentative)

Workshops:
Tues 11th Dec 2018
Conference:
Weds 12th – Fri 14th Dec
2018

CALL FOR PAPERS

The IEEE Real-Time Systems Symposium (RTSS) is the premier conference in the field of real-time systems, presenting innovations with respect to both theory and practice. RTSS provides a forum for the presentation of high-quality, original research covering all aspects of real-time systems, including theory, design, analysis, implementation, evaluation, and experience. RTSS'18 continues the trend of making RTSS an expansive and inclusive symposium, looking to embrace new and emerging areas of real-time systems research.

RTSS'18 welcomes submissions in all areas of real-time systems research, including but not limited to operating systems, networks, middleware, compilers, tools, modeling, scheduling, QoS support, resource management, testing and debugging, design and verification, hardware/software co-design, fault tolerance, security, power and thermal management, embedded platforms, and system experimentation and deployment experiences. In addition to the main real-time track, submissions are also welcomed in the specialized areas of Cyber-Physical Systems, HW-SW integration and system level design, and Internet of Things (IoT). To be in scope, all papers must address some form of real-time requirements.

PAPER SUBMISSION

All papers must be submitted electronically in PDF format, following the IEEE conference proceedings format and must describe original work not previously published or concurrently submitted elsewhere. The main body of each submitted paper is limited to 10 pages not including the bibliography or acknowledgements. Exceptionally, authors may include an optional appendix with supplemental material that may be read at the discretion of the program committee; this appendix is limited to two pages. Further details of the submission requirements can be found on the conference website.

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

The conference includes a **Brief Presentations session** and **RTSS@Work demonstrations.** These sessions are intended for presentation of recent and on-going work, including synopses of journal papers not previously presented, as well of demonstrations of tools and technology that have the potential to be used in the design and development of real-time systems. There will also be an **Industry session** where invited speakers from industry will talk about their work and experiences with real-world problems. A number of satellite **Workshops** will also be organized in conjunction with the conference.

PROCEEDINGS

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

VENUE: RTSS'18 will be located in Nashville, Tennessee, USA.