The 21st IEEE International Conference on Embedded and Real-Time Computing Systems and Applications

RTCSA 2015
Hong Kong, China
19 – 21 August

Sponsored By:
IEEE Computer Society
IEEE Computer Society, Technical Committee on Real-Time Systems
IEEE Hong Kong Section Computer Chapter

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Call for Papers

RTCSA 2015 is going to be held in Hong Kong and organized by the Department of Computer Science and the Research Centre of Ubiquitous Computing of Hong Kong Baptist University. Carry on with the tradition, the RTCSA conference series, will bring together researchers and developers from academia and industry for advancing the technology of embedded and real-time systems and their emerging applications.

RTCSA seeks both research and industry track paper that describe research or technical aspects in the area of embedded and real-time systems. Proceedings will be published by the IEEE Computer Society.

Scope of Conference
The 21st RTCSA will bring together researchers and developers from academia and industry for advancing the technology of embedded and real-time systems and their emerging applications. The conference has the following goals:

1. to investigate advances in embedded and real-time systems and system design practice and emerging applications;
2. to promote interaction among the areas of embedded computing, real-time computing and system design practice and emerging applications;
3. to evaluate the maturity and directions of embedded and real-time system and system design practice and emerging applications technology.

RTCSA 2015 seeks papers that describe original research in the area of embedded and real-time systems and their emerging applications. This include, but is not limited to:

EMBEDDED SYSTEMS TRACK
- Embedded System Architectures
- (Heterogeneous) Multi-core Embedded Systems
- Operating Systems and Scheduling
- Embedded Software and Compilers
- Power/Thermal Aware Design Issues
- Fault Tolerance and Security
- Sensor-based systems and applications
- Embedded systems and design methods for Cyber-Physical Systems
- Reconfigurable Computing Architectures and Software Support
- Ubiquitous and Distributed Embedded Systems and Networks

REAL-TIME SYSTEMS TRACK
- Real-Time Operating Systems
- Real-Time Scheduling
- Timing Analysis
- Programming Languages and Run-Time Systems
- Middleware Systems
- Design and Analysis Tools
- Communication Networks and Protocols
- Media Processing and Transmissions
- Real-Time Aspects of Wireless Sensor Networks
- Energy Aware Real-Time Methods
- Databases

SYSTEM DESIGN PRACTICE AND EMERGING APPLICATIONS TRACK
- Design Practice for Complex Computing Systems
- Emerging Applications Considering Timing, Power, Reliability, Security, etc.
- Internet of Things and Cyber-Physical Systems
- Smart Cars, Smart Communities, Smart Environment, etc.
- System Validation and Testing
- Use Cases and Study

[Special Note for System Design Practice and Emerging Applications Track]
Submissions accompanying experimental analyses with real implementations are particularly sought for this track. Since this track puts emphasis on practical experiences, insights and methodologies for building important and/or complex software systems, they will be evaluated with criteria different from those for theoretical work. Submissions from industry are very much welcomed.

Paper Submissions
Both research and industry track papers are solicited. The submitted manuscript must describe original work not previously published and not concurrently submitted elsewhere. Submissions should be no more than 10 pages in the IEEE conference proceedings format (two-column, single-space, 10pt). Conference content will be submitted for inclusion into IEEE Xplore, and will be EI indexed. The prospective authors should submit their papers through the submission web page at https://www.softconf.com/e/rtcsa15/.

Work-in-Progress Session
This session provides an opportunity for researchers attending RTCSA to present and discuss their research. More detailed information is available on the web.

Special Issue for Selected Papers
Selected papers will be recommended to submit the extended versions to the special issues of SCI(E)-indexed Journals.

Important Dates

Submission Deadline	Acceptance Notification	Camera-ready Submission	Conference Dates
14 April 11:59pm GMT-12 (Extended)	22 May	12 June	19-21 August

Organized by:

香港浸會大學
HONG KONG BAPTIST UNIVERSITY
計算機科學系
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