

RTCSA 2017

August 16-18, 2017, Hsinchu, Taiwan

Call for Papers

Steering Committee

Tarek Abdelzaher, University of Illinois at Urbana Champaign, USA
Seongsoo Hong, Seoul National University, Korea
Tei-Wei Kuo, National Taiwan University, Taiwan
Joseph Ng, Hong Kong Baptist University, HK SAR, China
Sang Hyuk Son, DGIST, Korea
Eduardo Tovar, School of Engineering of the Polytechnic Institute of Porto, Portugal
Hide Tokuda, Keio University, Japan

Organizing Committee

General Co-Chairs

Samarjit Chakraborty, TU Munich, Germany

Li-Pin Chang, National Chiao-Tung University, Taiwan

Program Co-Chairs

Real-Time Systems: Bjorn Andersson, CMU, USA

Embedded Systems: Jen-Wei Hsieh, NTUST, Taiwan

IoT, CPS, and Emerging Applications: Luis Almeida, U. Porto, Portugal

Workshop Chair

Vincent Nelis, CISTER, ISEP, Porto

Finance Chair

Chin-Hsien Wu, NTUST, Taiwan

Web Chair

Chin-Fu Kuo, National University of Kaohsiung, Taiwan

Publication Chair

Ya-Shu Chen, NTUST, Taiwan

Registration Chair

Yung-Feng Lu, National Taichung University of Science and Technology, Taiwan

Work-in-Progress Chair

Pi-Cheng Hsiu, Academia Sinica, Taiwan

Local Arrangement Co-Chairs

Che-Wei Chang, Chang Gung University, Taiwan

Kai-Chiang Wu, National Chiao-Tung University, Taiwan

Yi-Ping You, National Chiao-Tung University, Taiwan

Publicity Co-Chairs

Miroslav Paji, Duke University, USA

Shiao-Li Tsao, National Chiao-Tung University, Taiwan

Marisol García Valls, Universidad Carlos III de Madrid, Spain.

RTCSA 2017 is going to be held in Hsinchu, Taiwan and organized by NCTU. The RTCSA conference series carry on with the tradition and bring together researchers and developers from academia and industry for advancing the technology of embedded and real-time systems and their emerging applications, including the Internet of things and cyber-physical systems. RTCSA seeks both research and industry track papers that describe research or technical aspects in the area of embedded and real-time systems. Proceedings will be published by the IEEE Computer Society. More information on RTCSA 2017 can be found at <http://www.rtcsa.org/>

Scopes of Conference

The 23rd edition of RTCSA will bring together researchers and developers from academia and industry to promote cross-fertilization and discuss advances and trends in the technology of embedded and real-time systems and their emerging applications, including the Internet of Things and Cyber-Physical Systems. RTCSA 2017 seeks papers that describe original research in these areas, particularly in:

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
- Real-Time Aspects of Databases

EMBEDDED SYSTEMS TRACK

- Embedded System Architectures
- Multi-Core Embedded Systems
- Operating Systems and Scheduling
- Embedded Software and Compilers
- Non-Volatile Memory and Storage
- Power/Thermal Aware Design 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

IoT, CPS, AND EMERGING APPLICATIONS TRACK

- Systems, Technology and Foundations of IoT and CPS
- Applications and Case Studies of IoT and CPS
- Smart and Connected Health
- Industrial Internet and Industry 4.0
- Smart City Technology and Applications
- Smart Transportation and Infrastructure
- Cyber-Physical Co-Design
- Cloud, Middleware and Networks for IoT and CPS
- Wireless Sensor-Actuator Networks for IoT and CPS
- Industrial Networks and Systems

Paper Submission

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://easychair.org/conferences/?conf=rtcsa2017>.

Work-in-Progress Session

This session provides an opportunity for researchers attending RTCSA to present and discuss their latest research and get early feedback from the community at large. More detailed information is available on the web.

Special Issues of Journals

Selected papers will be recommended for submission of extended versions to the special issues of journals, such as the ACM Transactions on Cyber Physical Systems (application in progress) and Journal of Systems Architecture: Embedded Software (application in progress).

Important Dates:

Paper Submission Deadline
April 14, 2017

Acceptance Notification
June 2, 2017

Final Paper Submission
June 16, 2017

Organized by:



Department of Computer Science
National Chiao-Tung University

Sponsored by:

