



EMSOFT 2017



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Call for Papers International Conference on Embedded Software October 15-20, 2017 Seoul, South Korea

The ACM SIGBED International Conference on Embedded Software (EMSOFT) brings together researchers and developers from academia, industry, and government to advance the science, engineering, and technology of embedded software development. Since 2001, EMSOFT has been the premier venue for cutting-edge research in the design and analysis of software that interacts with physical processes, with a long-standing tradition for results on cyber-physical systems, which compose computation, networking, and physical dynamics.

Submissions are invited on all aspects of embedded software systems. These include, but are not limited to:

- Embedded software design and analysis
- Formal modeling and verification
- Testing, validation, and certification
- Model- and component-based approaches
- Operating systems and middleware for embedded systems
- Embedded software for distributed, networked systems
- Embedded software deployment on multi- and many-core processors
- Safety-critical and mixed-critical embedded software design
- Time-critical embedded systems
- Scheduling and execution time analysis
- QoS management and performance analysis
- Energy-efficient embedded software
- Embedded software security
- Embedded software architectures for intensive data- and signal processing
- Software design for cyber-physical systems
- Robust implementation of control systems

Abstract Submission:

March 31, 2017

Full Paper Submission:

April 7, 2017 (firm deadline)

Conference:

October 15-20, 2017

Venue:

Lotte Hotel, Seoul, South Korea

- Empirical studies and their reproduction, and confirmation
- Application areas, e.g. , automotive, avionics, energy, health care, mobile devices, multimedia, machine learning, and autonomous systems

A Special IoT (Internet of Things) Day will be organized jointly by all conferences in ESWeek. Papers on IoT with the distinctive EMSOFT angle are welcome.

Papers should represent original work, not formerly published or submitted for publication in other forums. A blind review process will be enforced. Authors should not reveal authorship directly or indirectly through references.

This year EMSOFT will follow a two-stage review process, in which papers passing the first stage of reviews will be asked to revise their work based on reviewer comments within a short time frame of around two weeks. Based on this, direct journal publication will be considered (see below).

Further information and formatting instructions will be available from the site <http://www.esweek.org/>

Journal-integrated Publication Model: ESWEEK 2017 will introduce a journal-integrated publication model where the majority of papers will be published in the ACM Transactions on Embedded Computing Systems (TECS).

ESWeek General Chairs:

Lothar Thiele, Swiss Federal Institute of Technology, CH
Soonhoi Ha, Seoul National University, KR

EMSOFT Program Chairs:

Robert de Simone, Inria & Université Côte d'Azur, France
Björn Brandenburg, MPI-SWS, Germany