



EMSOFT 2019



Call for Papers

International Conference on Embedded Software October 13 – October 18, 2019, New York City, USA

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, including but not limited to:

- Embedded software design and analysis
- Formal modeling and verification
- Testing, validation, and certification
- Model- and component-based approaches
- Embedded Operating systems and middleware
- Embedded distributed, networked systems
- Embedded software 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
- Empirical studies and their reproduction

Journal-Track Submissions

Abstract: April 5, 2019

Full Paper: April 12, 2019 (firm)

Work-in-Progress Submissions

June 07, 2019 (firm)

Notification of Acceptance

July 10, 2019 (both tracks)

- Application areas including automotive, avionics, energy, health care, mobile devices, multimedia, machine learning, and autonomous systems

A special day focusing on the Internet of Medical Things will be organized jointly by all conferences in ESWEEK. Papers aligned to the topics of interest for EMSOFT, focusing on Medical Cyber-Physical Systems with an emphasis on software for health care 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.

EMSOFT will follow a two-stage review process, where 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. Accepted papers will participate in the direct journal publication track and appear in ACM TECS (see below).

EMSOFT 2019 has a dual publication model where papers will be published in two tracks: Journal track papers will be published in the ACM Transactions on Embedded Computing Systems (TECS) and Work-in-Progress track papers will be published in the ESWEEK Proceedings. More details at <http://www.esweek.org/author-information>.

ESWEEK General Chairs

Petru Eles, Linköping University, SE.

Tulika Mitra, National University of Singapore, SG

EMSOFT Program Chairs:

Sriram Sankaranarayanan, U. of Colorado Boulder, USA

Timothy Bourke, Inria Paris, France