



EMSOFT 2016

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Call for Papers

**International Conference on Embedded Software
October 2-7, 2016, Pittsburgh, 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. EMSOFT 2016 is part of the Embedded Systems Week. 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.

Abstract submission:

April 1, 2016

Full paper submission:

April 8, 2016 (Firm deadline)

Conference:

October 2-7, 2016

Venue:

Pittsburgh Marriott City Center

Areas of Interest

- Design and implementation of embedded software
- Formal modeling and verification
- Testing and validation, and certification
- Model- and component-based software design and analysis
- Software technologies for safety-critical and mixed-critical systems
- Software architectures for cyber-physical systems
- Robust implementation of control systems
- Software for distributed, networked embedded systems
- Software development techniques for multi- and many-core systems
- Scheduling and execution time analysis
- Operating systems and middleware
- QoS management and performance analysis
- Energy-efficient embedded software
- Embedded software security
- Software architectures for data-driven processing and machine learning in embedded systems
- Empirical studies and their reproduction, and confirmation
- Application areas, e.g., automotive, avionics, energy, health care, mobile devices, multimedia, and autonomous systems

Papers should represent original work, not 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 ESWeek will introduce a two-stage review process in order to further increase quality. Papers passing the first stage need to revise their work within a short time frame of around two weeks. Further details will be published at least two months before the submission deadline. Like always, all accepted papers come with a talk and a poster presentation. Each accepted paper requires one full conference registration.

ESWeek General Chairs:

Jörg Henkel, KIT Karlsruhe
Lothar Thiele, ETH Zürich

EMSOFT Program Chairs:

Petru Eles, Linköping University, Sweden
Rahul Mangharam, University of Pennsylvania, USA