Call for Papers
2024 International Conference on Embedded Software (EMSOFT)
September 29 – October 4, 2024, Raleigh, NC, USA

EMSOFT (ACM SIGBED International Conference on Embedded Software) aims at advancing the science and engineering of embedded software. Since 2001, EMSOFT has been at the forefront of embedded software innovation, connecting academia, industry, and government. At EMSOFT, cutting-edge research meets practical application in designing and analyzing software that brings the digital and physical worlds together. EMSOFT’s tradition is at the heart of cyber-physical systems, where computation, networking, and physical dynamics converge.

We invite submissions on all aspects of embedded software systems, including but not limited to:

- **Embedded distributed, networked systems**
  - Time-critical embedded systems
  - Multi-/many-core processors, hardware accelerators
  - Embedded operating systems and middleware
  - Scheduling, resource allocation, and execution time analysis
  - QoS management and performance analysis
  - Hardware and software co-design

- **Embedded software design and analysis**
  - Energy-efficient embedded software
  - Safety/Mixed-critical embedded software
  - Software design and analysis for cyber-physical systems
  - Embedded software architectures for data-intensive applications and signal processing

- **Cyber-security, safety, and resilience**
  - Embedded software security and privacy
  - Safety mechanisms and methods for embedded software
  - Robust implementation of control systems

- **Processes and methods**
  - Formal modeling and verification
  - Testing, validation, and certification
  - Model- and component-based approaches

- **Empirical studies and their reproduction**

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

Submitted manuscripts must be double blind. Authors should not reveal their identity directly or indirectly (e.g., through references). The submitted work must be original, not formerly published or under review elsewhere.

EMSOFT 2024 will follow a two-stage review process for the journal track. Authors of papers that pass the first review stage will be asked to revise their work based on the received comments, within a short time frame (around two weeks). Papers accepted at the second stage will appear in IEEE TCAD (see below).

**Journal Track:**
- Abstract Submission: March 24, 2024
- Full Paper Submission: March 31, 2024 (firm)
- Notification of Acceptance: July 14, 2024

**Late Breaking and Work-in-Progress Tracks:**
- Paper Submission: June 2, 2024 (firm)
- Notification of Acceptance: June 30, 2024

**Proposals of Workshops, Tutorials, Education Classes, and Special Sessions:**
- March 24, 2024

All submissions are due by midnight, AOE.

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**Journal-Integrated Publication Model:** All full papers accepted in EMSOFT’24 will be published in IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD). All late-breaking papers accepted in one of the three conferences will be published in IEEE Embedded Systems Letters (ESL). See details at [https://esweek.org/author-information](https://esweek.org/author-information)

**ESWEEK General Chairs:**
- Alain Girault, INRIA, France
- Tei-Wei Kuo, National Taiwan University, Taiwan

**EMSOFT Program Chairs:**
- Alessandro Biondi, Scuola Superiore Sant’Anna, Italy
- Martina Maggio, Lund University, Sweden

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