

**41 ACM/SIGAPP SAC**

**Symposium on Applied Computing**

**March 23 - 27, 2026 @Thessaloniki, Greece**

**Embedded Systems Track - Call for papers**

**Scope**

High performance embedded computing has recently become more and more present in devices used in everyday life. A wide variety of applications, from consumer electronics to biomedical systems, require building powerful yet cheap embedded devices. In this context, embedded software is more and more complex, posing new challenges: the adoption of flexible programming paradigms/architectures is becoming almost mandatory. The development of embedded systems must rely on a tight coupling of hardware and software components and the market pressure calls for the employment of new methodologies for shortening the development time and driving the evolution of products. New efficient solutions to problems can be put into action by a joint effort of academia and industry.

Design of embedded systems must take into account a wide variety of constraints: performance, code size, power consumption, real-time constraints, maintainability, security and possibly scalability: convenient trade-offs must be found, often operating on a large number of parameters. In this scenario, solutions must be found at different levels of abstraction, making use of an assortment of tools and methodologies.

The focus of this conference track is on the application of both novel and well-known techniques to the embedded systems development. Particular attention is paid to solutions that require expertise in different fields (e.g. computer architecture, OS, compilers, security, software engineering, simulation). The track will benefit also from experiences in the employment of embedded devices in application areas. In this setting, researchers and practitioners from academia and industry will get a chance to keep in touch with problems, open issues and future directions in the field of development of embedded applications.

Paper submission and acceptance

Manuscripts must be submitted electronically in PDF format, according to the instructions contained in the main Conference web site. The review process is double blind. Please anonymize the paper submitted for review. The paper length is 8 pages, with the option to add 2 additional pages at extra charge, up to a maximum of 10 pages. Contributions must contain original unpublished work. Papers that have been concurrently submitted to other conferences or journals (double submissions) will be automatically rejected. All papers must be submitted through the SAC main conference web page.

Paper registration is required, allowing the inclusion of the paper/poster in the conference proceedings. An author or a proxy attending ACM SAC MUST present the paper: This is a requirement for the paper/poster to be included in the ACM/IEEE digital library. No-show of scheduled papers and posters will result in excluding them from the ACM/IEEE digital library.

Student Research Competition

Graduate students seeking feedback from the scientific community on their research ideas are invited to submit abstracts of their original unpublished and in-progress research work. Authors of selected abstracts will have the opportunity to give poster presentations of their work and compete for three top winning places. The winners will receive cash awards and SIGAPP recognition certificates. Graduate students are invited to submit abstracts (minimum 2; maximum 4 pages) following the instructions published at SAC web-site.

### Topics of Interest (not limited to)

* + Embedded Systems, Cyberphysical Systems (CPS), and Internet-of-Things (IoT):
    - System-level specification, modeling, virtual prototyping and simulation
    - Embedded system synthesis and optimization
    - Many- and multi-core SoC architecture
    - HW/SW co-design, co-simulation and co-verification
    - Energy/power management design and energy harvesting
  + Embedded Software:
    - Kernel, middleware, and virtual machine
    - Energy-efficient embedded software
    - Real-time software and operating systems
    - Software design for multicores, GPUs, and heterogeneous embedded architectures
    - Testing, debugging, profiling and performance analysis of Embedded Systems
  + Memory Architecture and Near/In Memory Computing:
    - Storage system and memory architecture
    - On-chip memory architectures and management: Scratchpads, compiler, controlled memories, etc.
    - Memory and storage hierarchies with emerging memory technologies
    - Near-memory and in-memory computing
    - Memory architecture and management for emerging memory technologies
  + Large Language Model, Neural Network, and Deep Learning System Designs:
    - LLM optimization
    - AI and machine learning for embedded systems
    - Hardware and devices for neuromorphic and neural network computing
    - Systems for neural computing (including deep neural networks)
    - Neural network acceleration co-design techniques
    - Design techniques for AI of Things
* Emerging Devices, Technologies and Applications
  + Biomedical, biochip, and biodata processing
  + Edge, fog and cloud computing
  + Energy-storage/smart-grid/smart-building design and optimization
  + Automotive system design and optimization

**30th SAC Symposium on Applied Computing**

**Web site**

**Main conference:**

<https://www.sigapp.org/sac/sac2026/>

**EMBS track:**

<https://embs-sac.github.io/sac2026/>

**Track chairs**

Jalil Boukhobza - ENSTA-Bretagne, Lab-STICC lab

Marco D. Santambrogio - Politecnico di Milano

Chien-Chung Ho - National Cheng Kung University

### Dates

Submission deadline: September 26, 2025

Notification of acceptance: October 24, 2025

Deadline for final manuscript: December 05, 2025

**TPC members (tentative)**

Luca Abeni

Università di Trento, Italy

Sandro Bartolini

Università di Siena, Italy

Joao Cardoso

Universidade do Porto, Portugal

Francisco J. Cazorla

IIIA-CSIC and Barcelona Supercomputing

Center, Spain

Li-Pin Chang

National Yang Ming Chiao Tung

University, Taiwan

Yu-Ming Chang

Wolley Inc., Taiwan

Tseng-Yi Chen

National Central University, Taiwan

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East China Normal University, China

Emmanuel Grolleau

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Xianzhang Chen

Chongqing University, China

**April 13 - 17, 2015 Salamanca, Spain**