

COINS 2019

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Special session on cyber-physical and embedded systems

This session focuses on modelling, analysis, design and deployment of cyber-physical and embedded systems. Cyber-Physical Systems (CPS) are characterized by tight coupling and interaction between computation, communication and control elements (cyber part), and physical processes such as motion, heating/cooling, vibration, wear and tear (physical part). A typical deployment of such systems uses embedded platform offering computation and communication resources. Design challenges include modelling, resource efficiency, cost effectivity, reliability, safety, security and many more.

Topics of interest include, but are not limited to, the following:

1. Model-based analysis, design and synthesis of cyber-physical and embedded systems.
2. Control/architecture co-design of cyber-physical systems – resource-efficiency, performance optimization, embedded control systems.
3. Multi-objective optimization, system-level (co-)design approaches, trade-off analysis and design-space exploration for cyber-physical and embedded systems.
4. Formal methods for cyber-physical and embedded systems – e.g., model checking, abstraction and refinement.
5. Reliable and fault-tolerant design for cyber-physical and embedded systems.
6. Safety, dependability, privacy and security of cyber-physical and embedded systems.
7. Design, synthesis, simulation and verification of distributed and networked cyber-physical and embedded systems.

Proceeding & Submission Guidelines

COINS is sponsored by **IEEE Council on Electronic Design Automation (CEDA)**. The proceeding will be published in **ACM**. Accepted papers are allowed six pages in the conference proceedings free of charge. Each additional page beyond six pages is subject to the page charge at 150 Euro per page up to the eight-page limit.

Extended versions of selected best papers will be published in a special issue of the ISI indexed Elsevier journal "Microprocessors and Microsystems: Embedded Hardware Design" (**MICPRO**) having the 2016 Impact Factor as high as 1.025

In order to conduct a blind review, no indication of the authors' names should appear in the manuscript, references included.

Important Dates

Submission Deadline: December 1, 2018

Notification Date: January 15, 2019

Camera-ready: January 31, 2019

Conference Dates: May 5-7, 2019

Grant

COINS Executive Committee is pleased to announce registration grants for highly skilled students who have an accepted paper. We are especially looking forward to applications from Middle East, and Asia.