CALL FOR PAPERS

The ARCS conferences series has over 30 years of tradition reporting leading edge research in computer architecture and operating systems. The focus of the 2019 conference will be on architectures for complex real-time systems like autonomous control systems, as well as safety and security critical systems. This includes upcoming architectures and technologies, exploitable architectural features, languages, and tooling.

The proceedings of ARCS 2019 will be published in the Springer Lecture Notes on Computer Science (LNCS) series. A best paper and best presentation award will be presented at the conference.

Paper submission: Authors are invited to submit original, unpublished research papers on one or more of the following topics:

- **Hardware Architectures**
  - System-on-chip
  - Distributed systems
  - High performance systems
  - Heterogeneous multi- and many-core architectures
  - Architectures for real-time and mixed-criticality systems
  - Coarse- and fine-grained reconfigurable architectures
  - Flexible I/O support
  - Advanced computing architectures

- **Programming Models and Runtime Environments**
  - Programming models for many-core and/or heterogeneous computing platforms
  - Operating systems, hypervisors and middleware for homogeneous and heterogeneous multi-/many-core computing platforms
  - System management including but not limited to scheduling, memory management, power/thermal management, and RTOS

- **Cross-sectional Topics**
  - Adaptive systems (energy aware, self-x technologies)
  - Pervasive systems
  - Approximate Computing
  - Autonomous systems
  - Support for safety and security
Submission guidelines: Submissions should be done through the link that is provided on the conference website https://easychair.org/conferences/?conf=arcs2019. Papers must be submitted in PDF format. They should be formatted according to Springer LNCS style (see: https://www.springer.com/gp/computer-science/lncs/conference-proceedings-guidelines) and must not exceed 12 pages, including references and figures.

Workshop and Tutorial Proposals: Proposals for workshops and tutorials within the technical scope of the conference are solicited. Submissions should be done through email directly to the corresponding chair: Carsten Trinitis, (Carsten.Trinitis@tum.de)

Important Dates:
- Paper submission deadline: December 10, 2018
- Workshop and tutorial proposals: TBA
- Notification of acceptance: February 14, 2019
- Camera-ready papers: March 01, 2019

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