

CfP: 22nd International Workshop on Software and Compilers for Embedded Systems

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CALL FOR PAPERS

[22nd International Workshop on Software and Compilers for Embedded Systems \(SCOPES 2019\)](#)

Sankt Goar (Germany) | May 27th till May 29th, 2019 |
<https://www.scopesconf.org/scopes-19/>

A next edition of the workshop on Software and Compilers for Embedded Systems (SCOPES) will be organized in 2019. The workshop will feature a combination of research papers and research presentations (details see below). The papers and presentation abstracts will also be published in the ACM digital library. The workshop is held in cooperation with ACM SIGBED and EDAA.

AIM AND SCOPE

The influence of embedded systems is constantly growing. Increasingly powerful and versatile devices are developed and put on the market at a fast pace. Their functionality and number of features is increasing, and so are the constraints on the systems concerning size, performance, energy dissipation and timing predictability. To meet all these constraints, multi-processor systems on a chip (MPSoCs) are becoming popular in embedded systems. In order to meet the performance and energy constraints of embedded applications, heterogeneous architectures incorporating functional units optimized for specific functions are commonly employed. This technological trend has dramatic consequences on the parallelization, mapping, compiler and design technology used to develop these systems.

The SCOPES workshop focuses on the software generation process for modern embedded systems. Topics of interest include all aspects of the compilation and mapping process of embedded single and multi-processor systems. This includes (but is not limited to):

- models of computation and programming languages;
- performance analysis techniques for models of computation;
- automatic code parallelization techniques;
- mapping and scheduling techniques for embedded multi-processor systems;

- code generation techniques for embedded single- and multi-processor architectures;
- design-space exploration techniques for use in the HW/SW codesign process;
- techniques to exploit the dynamic behavior in embedded applications;
- interactions between operating systems and compilers;
- techniques for compiler aided profiling, measurement, debugging and validation of embedded software.

WORKSHOP STRUCTURE

The workshop structure (presentations followed by intensive discussions) allows for an interactive atmosphere in which industrial and academic representatives can exchange new ideas and trends in the area MPSoC mapping and code generation.

Important dates

Research papers

- Full research paper submission: February 10, 2019
- Notification of acceptance: March 29, 2019
- Final paper submission: April 26, 2019

Research presentations

- Abstract submission research presentations: February 10, 2019
- Notification of acceptance: March 29, 2019
- Final abstract submission: April 26, 2019

Paper Submission Instructions

SCOPES accepts two types of submissions:

Research papers

Research papers should present original research results not published or submitted for publication in other forums. Accepted papers will be published via the ACM digital library and they will be scheduled for a presentation during the workshop. Research papers should not exceed 10 pages in ACM format (single-spaced, 2 columns, 9pt font; for instructions visit the [ACM website](#)). Papers must be submitted in PDF format using the [SCOPES paper submission website](#). To permit blind review, submissions should not include the author names.

Research presentations

Research presentations should present research results relevant to the topics addressed by the workshop. These presentations may be based on research results that have previously been presented in other forums. Accepted presentations will be scheduled for a presentation during the workshop. Authors of accepted research presentations will be given the opportunity to publish a 4 page abstract in the workshop proceedings (available through ACM digital library). Publication in the proceedings is optional and the authors may decide not to do so. Authors that are interested in giving a research presentations at the SCOPES

2017 workshop should submit a 4 page abstract in ACM format (single-spaced, 2 columns, 9pt font; for instructions visit the [ACM website](#)). Abstracts must be submitted in PDF format using the [SCOPES paper submission website](#). Author names should be included on these abstracts.

Committee

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- Henk Corporaal - Eindhoven University of Technology, NL

Program Chair

- Sander Stuijk - Eindhoven University of Technology, NL

Publicity chair

- Peter Marwedel - Dortmund University of Technology, DE

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- Soheil Ghiasi, UC Davis, USA
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