The 23rd International Symposium on Applied Reconfigurable Computing (ARC 2027)

March 31st to April 2nd 2027, Berlin, Germany

www.arc2027.org

CALL FOR PAPERS

The ARC Symposium

Reconfigurable computing technologies offer the promise of substantial performance gains over traditional architectures via customizing, even at runtime, the topology of the underlying architecture to match the specific needs of a given application. Contemporary configurable architectures allow for the definition of architectures with functional and storage units that match in function, bit-width, and control structures the specific needs of a given computation. The flexibility enabled by reconfiguration is also seen as a basic technique for overcoming transient failures in emerging device structures.
ARC aims at bringing together researchers and practitioners of reconfigurable computing with an emphasis on practical applications of this promising technology. ARC 2027 will have a series of international invited speakers who will express their views on the future of reconfigurable technology.

The ARC 2027 proceedings will be published by Springer-Verlag as a Lecture Notes in Computer Science (LNCS) series volume and will also be available through the Springer Link on-line service (www.springer.com/lncs).

Additionally, selected papers will be invited to be submitted for consideration for a special issue of ACM Transactions on Reconfigurable Technology and Systems (TRETS).

**** General Co-Chairs:***
João M. P. Cardoso (University of Porto, Portugal)
Michael Huebner (Humboldt-University of Berlin, Germany)
**** Program Co-Chairs:***
Ahmed Kamaleldin (Dresden University of Technology, Germany)
Christos Antonopoulos (University of the Peloponnese, Greece)
**** Proceedings Chair:***
Pedro Diniz (University of Porto, Portugal)
**** Publicity Co-Chairs:***
Diana Göhringer (Dresden University of Technology, Germany)
Shinya Takamaeda-Yamazaki (The University of Tokyo, Japan)

Important Dates

Submission deadline
~~*25 October 2026*~~ ~~*09 November 2026*~~ ***27 November 2026 (Extended final)***
Author Notification
15 January 2027
Camera-Ready and Author Registration
8 February 2027

Submission Information

Authors are invited to submit original contributions in English including, but not limited to, the areas of interest mentioned below. ***Submission must be fully anonymous, but authors should not hide previous work, instead, they need to make self-references in the third person.***
Submission must be uploaded to the ARC website and identify the format of the contribution as either:
Long Papers: *(**14 pages maximum**) which should include mainly accomplished results (oral presentation)*
Short Papers: *(**8 pages maximum**) to be composed of work in progress or reporting recent developments (poster presentation)*
The format of the paper should be according to the Springer-Verlag LNCS Series format rules as described in
https://link.springer.com/series/558/information-for-authors-and-editors

Special Sessions:

- ***Collaborative Research Projects***
- ***Reliable Reconfigurable Hardware***

Distinguished Speakers:

- ***Prof. Dr. Fernanda Lima Kastensmidt***
  (Federal University of Rio Grande do Sul (UFRGS), Brazil)
- ***Dr.-Ing. Thomas Preußer***
  (AMD Research, Dresden, Germany)

Topic of Interest

RC Design Methods & Tools

- *High-level Compilation*
- *Simulation*
- *Estimation Techniques*
- *Design Space Exploration*
- *Programming Languages and paradigms*
- *Run-Time Systems*
- *Compilation and Synthesis*

RC Architectures

- *Fine-grained and Mixed-grained*
- *Multi-Processor based*
- *Embedded Multi-Core*
- *Reconfigurable Fabrics*
- *Resilient through Reconfiguration*
- *System Architectures and Integration*

RC Applications

- *High-Performance Systems*
- *Embedded Computing*
- *Robotics*
- *Digital Signal Processing*
- *Safety and Mission Critical Systems*

RC Critical Issues

- *Teaching Reconfigurable Computing*
- *Surveys and Future Trends*
- *Benchmarks*

Submission:
https://easychair.org/conferences/?conf=arc2027

Computer Engineering Group
Prof. Dr.-Ing. habil. Michael Hübner

hosted by
HUMBOLDT-UNIVERSITÄT ZU BERLIN