

Call for Papers



The 14th International Symposium on Applied Reconfigurable Computing (ARC 2018) 2 - 4 May 2018, Santorini, Greece <http://arc2018.esda-lab.cied.teiwest.gr>



Symposium Information

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 adaptive systems 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 faults 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 2018 will have a series of international invited speakers that will express their view on the future of reconfigurable technology.



The ARC 2018 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](#)

Selected papers will be invited to be submitted for consideration in the *special issue* of a high quality journal that will be announced via the web site of the conference during the next weeks

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 uploaded to the ARC website and identify the format of the contribution as either:

- **Long Papers:** (12 pages maximum) should include mainly accomplished results (*oral presentation*)
- **Short Papers:** (6 pages maximum, or 8 pages max. upon payment of additional charge of 50 EUR per extra page) 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](#)

European Projects Section: The ARC 2018 conference will include an extra section of the Proceedings dedicated to **European Projects**.

Organizing Committee

General Chairs:

- Nikolaos Voros (Technological Educational Institute of Western Greece)
- Michael Hübner (Ruhr Universität in Bochum, Germany)

Program Chairs:

- Georgios Keramidas (Technological Educational Institute of Western Greece)
- Diana Goehring (TU Dresden, Germany)

Proceedings Chair:

- Pedro Diniz (INESC-ID, Lisboa, Portugal)

Web Chair:

- Christos Antonopoulos (Technological Educational Institute of Western Greece)

Publicity Chairs:

- Luigi Carro (UFRGS, Brazil)
- Stephan Wong (TUDelft, The Netherlands)
- Chao Wang (USTC, China)
- Dimitrios Soudris (NTUA, Greece)

EU Projects Track Chair :

- Christos Antonopoulos (Technological Educational Institute of Western Greece)

Important Dates

Submission deadline
11 November 2017

Author Notification
19 December 2017

Camera-Ready and Author Registration
15 January 2018

Topics of Interest

RC Design Methods & Tools

- High-level Languages & Compilation
- Simulation & Synthesis
- Estimation Techniques
- Design Space Exploration
- Run-Time Systems & Virtualization

RC Architectures

- Self-adaptive, evolvable
- Heterogeneous (GPU, DSP, APU)
- Low-Power Designs
- Approximate Computing
- Fine-/Coarse-/Mixed-grained
- Embedded MPSoCs and NoCs
- Resilient & Fault Tolerant

RC Applications

- Security & Cryptography
- Big Data & HPC
- Embedded Computing & DSP
- Robotics, Space, Bioinformatics, Automotive
- Safety & Mission Critical Systems
- Deep Learning & Neural Networks

Trends (in)

- Teaching RC
- Surveys and Future Trends
- Benchmarks
- Emerging Technologies
- Cyberphysical systems

<https://goo.gl/oS65DV>

<https://goo.gl/5Lh5eZ>

#ARC_2018

Organized by:



Computer & Informatics
Engineering Department
Technological Educational Institute
of Western Greece
<http://esda-lab.cied.teiwest.gr>

