



# The 10th International Symposium on Applied Reconfigurable Computing (ARC 2014)

14–16 April 2014, Algarve, Portugal



## 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 2014 will have a series of international invited speakers that will express their view on the future of reconfigurable technology.



The ARC 2014 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](http://www.springer.com/lncs)).



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

### 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) which 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 as described in

<http://www.springer.de/comp/lncs/author.html>

### Organizing Committee

#### \* General Chairs:

João M. P. Cardoso (University of Porto, Portugal)  
Koen Bertels (TUDelft, Delft, The Netherlands)

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Jason H. Anderson, University of Toronto, Canada

#### \* Web Chair:

João Bispo (University of Porto, Portugal)

#### \* Local Arrangements:

João Lima (University of Algarve, Algarve, Portugal)  
Rui Marcelino (University of Algarve, Algarve, Portugal)

### Important Dates

#### Submission deadline

25 October 2013

#### Author Notification

6 December 2013

#### Camera-Ready and Author Registration

3 January 2014

### 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

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[www.fe.up.pt/arc2014](http://www.fe.up.pt/arc2014)