

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).



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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* Local Arrangements:

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

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

- Multi-Processor based
- Embedded Multi-Core
- Reconfigurable Fabrics
- Resilient through Reconfiguration •
- Integration

RC Applications

High-Performance Systems

Important Dates Submission deadline

25 October 2013

Author Notification

3 January 2014

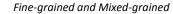
6 December 2013

Camera-Ready and Author Registration

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

RC Critical Issues

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



- System Architectures and





