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ERSA'2012 Conference

July 16-19, 2012

Las Vegas, Nevada, USA



**The 2012 International Conference on
ENGINEERING OF RECONFIGURABLE SYSTEMS AND ALGORITHMS -
ERSA'12**

July 16-19, 2012, Monte Carlo Resort, Las Vegas, Nevada, USA

ERSA-News: [ERSA-NEWS](#) ERSA'12 Website: <http://ersaconf.org/ersa12>

**CALL for Papers, Industrial Sessions, Demos, Exhibitions,...
DEADLINE FOR:**

- **academic papers: April 12, 2012**
- **industrial papers: May 4, 2012**

In 2012, ERSA emphasise the commercial and industrial challenges in reconfigurable technology

ERSA'12 consists of two parts:

- **ERSA Academic**
- **ERSA Industrial Session, or Developers Forum**

Make your proposals for dedicated sections (both, academic and industrial), discussion sessions, exhibitions, demos, presentations, seminars, tutorials, etc.

Note, each session may have academic and developer's sections; it is most appreciated.

For more details, please contact by email: inf@ersaconf.org

Send your proposal by email: inf@ersaconf.org or visit [ERSA-IS Registration](#) website

Deadlines:

- Submissions of Academic Papers: April 12, 2012
- Notification of Acceptance of Academic Papers: April, 28, 2012
- Submissions of Industrial Papers: May 4, 2012
- Camera-Ready Papers: May 12, 2012

Sponsor ERSA, raise your visibility, and show your support for advancing reconfigurable systems algorithms and systems in both academic and commercial applications!

<http://ersaconf.org/ersa-news/sponsorship-levels.php>

Add your Comments and Posts:

- Visit ERSA at SemiWiki and add your post:
<http://www.semiwiki.com/forum/f2/international-conference-engineering-reconfigurable-systems-algorithms-1201.html>
- If you have any proposals and/or comments, please make these on “ERSA Registration & Proposals for ERSA-IS” page at: <http://ersaconf.org/ersa-news/ersa-is-pre-reg.php>

ERSA Industrial Session: ERSA-IS

“Premier International Gathering for Commercial and Academic Reconfigurable Computing Application Developers”

ERSA Industrial Session is to assemble a **coordinated research and commercial meeting held in same location and dates**. It provides a forum between **academic researchers and commercial entrepreneurs from developed countries and emerging economic markets**.

ERSA is a part of WORLDCOMP Congress bringing together **more than 2,200 attendees from over 85 countries** over the world. Companies, participating at ERSA/WORLDCOMP, get their products and organizations in front of this number of attendees and countries.

This something that is very expensive to do any other way. It provides a **meaningful return on investment** (or cost savings) that companies can evaluate - trading off one or two expensive trips for one trip and sponsorship of ERSA-IS at WORLDCOMP.

SUBMISSION of PAPERS

Prospective authors are invited to submit an electronic copy of a full academic or industrial paper to:

ACADEMIC TRACK: reviewed and evaluated for academic content and contribution. Submitted papers must be original, unpublished work, not currently submitted for publication or for consideration elsewhere. ERSA Conference Academic track does not accept submissions of overview papers.

INDUSTRIAL TRACT: reviewed and evaluated for strong industrial/technical content and contribution

NOTE: Industrial track is not a back door for accepting weak academic papers

Submit a full paper, formatted as IEEE two-column transaction paper in PDF to sub@ersaconf.org

Regular paper: up to 7 pages; short paper: 4 pages; poster: 2 pages

Paper must be submitted with cover letter, visit also ERSA'11 guidelines

For more details, visit: <http://ersaconf.org/ersa11/submission.php> and for ERSA11: "Submission of Papers".

Proposed Featured Industrial Sessions:

- Developing heterogeneous systems (CPU plus FPGA) using the OpenCL standard
- Developing IP cores and scalable libraries for heterogeneous systems
- Hardware security and trust in reconfigurable heterogeneous systems

Proposed Dedicated Industrial Sections:

- **"R/A/M in Finance: Reconfigurable / Adaptive / Multicore Computing in Finance and Banking"**

Note, each session may have academic and developer's sections; it is most appreciated.

Hot Topics for Academic Session

- Formal Methods and Engineering: Tools and Theory of Design Methods
- Reconfigurable and Evolvable Hardware Architectures: Bio-Inspired, Low-Power, Multi-Core, Achronix, NuFPGA, etc.
- Security: Threats and Solutions for Reconfigurable Embedded Systems

Proposed Dedicated Academic Sections

1. **"Self-Organizing Reconfigurable Embedded Systems"**
Chair: Prof. Christophe Bobda: University of Arkansas, USA
Co-Chair: Prof. Achim Rettberg: University of Oldenburg, Germany
Co-Chair: Dr. Ali Ahmadinia, Glasgow Caledonian University, UK
2. **"FPGA architectures for safety-related applications in transport, i.e. automotive, avionics and space"**
Chair: Prof. Dr.-Ing. Mladen Berekovic, Technische Universität Carolo-Wilhelmina zu Braunschweig, Germany
3. **TBA**

ERSA General Scope

ERSA conference solicits papers from all aspects of reconfigurable computing, including classical programmable logic, as well as reconfigurable multiprocessing related papers. The range of topics covers theory, architecture, algorithms, design systems, and applications that demonstrate the benefits of reconfigurable computing:

- Theory - Synthesis, Mapping, Parallelization, Partitioning...
- Software - CAD, Languages, Compilers, Operating Systems...
- Hardware - Adaptive and Dynamic Hardware, Reconfigurable Architectures...
- Applications - Mobile Computing, Automotive Industry, Smart Cameras...

ERSA conference explores emerging trends and novel ideas in the area of parallel, reconfigurable, high-performance computing architecture, design methods and applications. ERSA is promoting multidisciplinary research and new visionary approaches including bio-inspired architectures, computational biology, physics etc.

ERSA conference brings together leading scientists and researchers from academia and industry.

Sponsor ERSa and raise your visibility, and show your support for advancing reconfigurable systems and algorithms, and systems in both academic and commercial applications!

For sponsorship details, visit: [Sponsorship Levels](#)

Looking forward to meet you in Las Vegas!

For all inquiries contact: inf@ersaconf.org

ERSA partners in organizing ERSa 2012 event are:

- [SemiWiki](#), The Semiconductor Wiki Project
- [OpenFPGA](#) proudly supports ERSa!
- [FPGA Central](#) , ERSa media sponsor



ERSa Chair

Dr Toomas P Plaks, London, UK

ERSa Co-Chairs

Daniel Nenni, SemiWiki Project, USA

ERSa Industrial Board

Eric Stahlberg, President, OpenFPGA

Steven Guccione, Technology Manager, Bank of America

Useful contacts:

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For more details, visit ERSa News: <http://ersaconf.org/ersa-news/>

ERSa Archive website: <http://ersaconf.org/archive/>