

Workshop on the Intersections of Computer Architecture and Reconfigurable Logic (CARL 2012)

Portland, Oregon - Sunday, June 10, 2012

Co-located with ISCA-39

<http://www.ece.cmu.edu/calcm/carl>

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- John Wawrzynek, UC Berkeley

Organizers

- Derek Chiou, UT Austin
- Joel Emer, Intel/MIT
- James C. Hoe, CMU



The Workshop on the Intersections of Computer Architecture and Reconfigurable Logic (CARL) is a new forum for presenting FPGA and reconfigurable logic research relevant to a computer architecture audience. This full-day workshop will be held on Sunday, June 10, 2012, co-located with ISCA-39 in Portland, Oregon. The meeting will include keynote presentations, research presentations, “quick-pitches,” and a brainstorming panel. Please visit the website (www.ece.cmu.edu/calcm/carl) for more information.

Research Papers. We invite research papers from all areas of FPGA and reconfigurable logic that impact the computer architecture community. Major areas of interests include, but are not limited to:

- New FPGA architectures and reconfigurable fabric designed to support computing
- Heterogeneous computing processors and systems that incorporate reconfigurable logic
- Computation models and programming tools for reconfigurable and heterogeneous computing
- State-of-the-art (ready-for-use) reconfigurable computing platforms and infrastructure
- Algorithms and applications for reconfigurable computing (including FPGA-based prototyping and simulation of computer systems)
- Evaluations of reconfigurable computing in terms of performance, power/energy, flexibility and cost, especially in comparison to other hardware paradigms (multicore, GPU, ASICs, etc.).

We will accept submissions in two categories: (1) new unpublished manuscripts, and (2) audience-appropriate revisions of papers already published or under review outside of traditional computer architecture forums. Papers selected for presentations will not be published in any formal proceedings.

A submission should be 4~6 pages in double-column format. The review process is not blind; please include authors' names and affiliations. Please clearly indicate whether a submission is category 1 or 2 in the header area of the submission. If category 2, the source materials must be explicitly introduced in both the abstract and introduction.

Quick Pitches. In addition to formal research presentations, CARL 2012 will have a “quick-pitch” session for short 8-minute informal presentations to pitch a new idea, make an announcement, etc. The presenter's goal is to engage the CARL audience so they will want to find out more from a website. Interested presenters should submit a 1-page proposal that includes a title; presenter's name and affiliation; an abstract of the presentation; and a web-link to the website being pitched. Preference will be given to topics that are current and has a broad appeal to the CARL audience.

Questions? Please visit the workshop website (www.ece.cmu.edu/calcm/carl) for submission. Please email questions to jhoe@ece.cmu.edu.

Important Dates

Submission Deadline: March 30, 2012
Notification of Selection: May 1, 2012
Final Paper Submission: May 28, 2012