



RAW 2016

23TH Reconfigurable Architectures Workshop May 23-24, 2016, Chicago, IL, USA

Welcome







Twenty three years of reconfigurable computing

- RAW started in 1994 at IPDPS, Cancun, Mexico
- Evolved with changing focus in the area
- The community and workshop has grown over the years
- Today RAW is one of the major meetings in Reconfigurable Computing







Thank you!



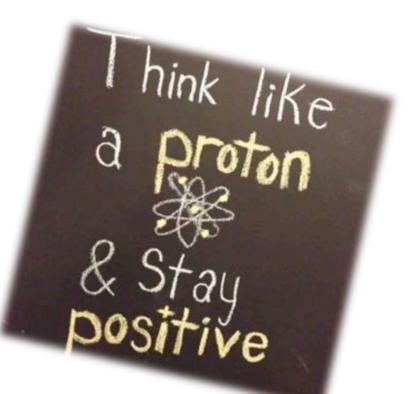






Highlights

- Technical sessions and presentations
- 3 Keynote
- 1 Panel
- Interactive sessions
- Social event
- Best paper/demo awards







Organizing Committee

- Workshop Chairs:
 - Marco Santambrogio, Politecnico di Milano, Italy
 - Ramachandran Vaidyanathan, Louisiana State University, USA
- Program Chair:
 - Diana Goehringer, Ruhr-University Bochum, Germany\
 - Steve Wilton, University of British Columbia, Canada
- Program Vice-Chairs:
 - Architectures & Algorithms: Seda Memik, Northwestern University, IL, USA
 - Reconfigurable Systems & Applications: Donatella Sciuto, Politecnico di Milano, Italy
 - Software & Tools: Michaela Blott, Xilinx, Dublin, Ireland
- Steering Chair: Viktor K. Prasanna, University of Southern California, USA
- Steering Committee:
 - Jürgen Becker, Karlsruhe Institute of Technology, Germany
 - Viktor K. Prasanna, University of Southern California, USA
 - Ramachandran Vaidyanathan, Louisiana State University, USA
- Publicity Chairs:
 - Brian Veale, IBM, USA
 - Kentaro Sano, Tohoku University, Japan
 - Nikolaos Voros, Technological Institute of Western Greece, Greece







Our Program Chairs



Diana Goehringer

- Ruhr-University Bochum
- Germany

Steve Wilton

- University of British Columbia -
 - Canada -







General Statistics

- Submissions
- Accepted
- Acceptance rate

42 (last year 35) 16 (+11 short) 0.38 full

Reviews

- Overall #Reviews 161 (at least 3 per paper)
- External reviewers 30
- External reviews 36





V 20

What we are going to have!

- 5 Technical sessions and presentations
 Only full and short papers
- 2 short papers intro session
- 3 Keynotes
- Panel discussion
- Interactive sessions
- Talks' presentations available on inervision





What's hot in RAW 2016

• RAW format

- Brought it back to the 2-day format





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RAW 2016 Awards

Awards will be announced on Tuesday at the closing session

- Awards
 - 2 Best Papers
 - 1 Best Poster
 - 1 Best Demo







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- 5'-pitch session and poster session for short paper... with a best poster award!
- The 1st RAW social event on the evening of Monday!







What's hot in RAW 2016



 The 1st RAW social event on the evening of Monday!

http://raw.necst.it/2016/social-event.php







RAW 2016 Social Event



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Sponsored by

RAW 2016 Social Event

- 1st RAW Social event
 - Where: Kingston Mines
 - When: Monday May the 22nd @9pm
- Free food and drink untill 12am
- Entrance with tickets
 - Look for Marco or Diana for the tickets
 - all the seats are sold out





RAW 2016 Social Event

- Kingston Mines
 - @ 2548 North Halsted Street, Chicago
- How to get there
 - BUS 8
 - Stop: Halsted & Wrightwood
 - Stop: Halsted & Altgeld
 - Red Line (L)
 - Stop: Fullerton



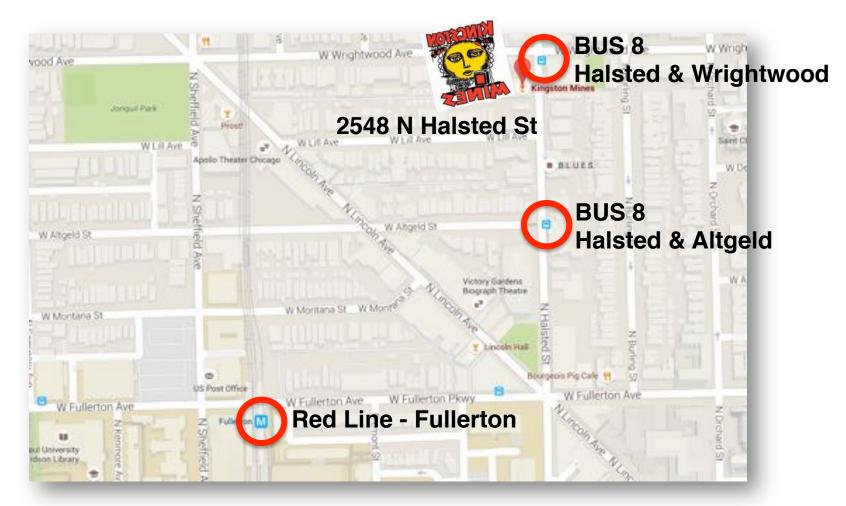


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RAW 2016 Social Event



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Keynote on Monday @ 8.30am

Reconfigurable Accelerators for Big Data and Cloud



Peter Hofstee – IBM – Austin, TX, USA

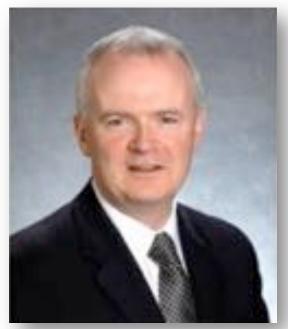
http://raw.necst.it/2016/keynote-1.php





Keynote on Tuesday @ 10am

Enabling Software Engineers to Program Heterogeneous, Reconfigurable SoC



Patrick Lysaght

- Xilinx
- San Jose, CA, USA

http://raw.necst.it/2016/keynote-2.php





Keynote on Tuesday @ 2.15pm

Why the application development on SoC demands a next level programming model



Dirk van den Heuvel – TOPIC Embedded Products – Eindhoven, the Netherlands

http://raw.necst.it/2016/keynote-3.php





Panel on Monday @ 5pm

Reconfigurable Computing Through the Looking Glass Chair: Marco D. Santambrogio, Politecnico di Milano

Diana GoehringerRuhr-University Bochum, Germany Dirk van den Heuvel, TOPIC, Eindhoven, the Netherlands Peter Hofstee, IBM, Austin, TX, USA Gokhan Memik, Northwestern University, Chicago, IL, USA





For the speakers...

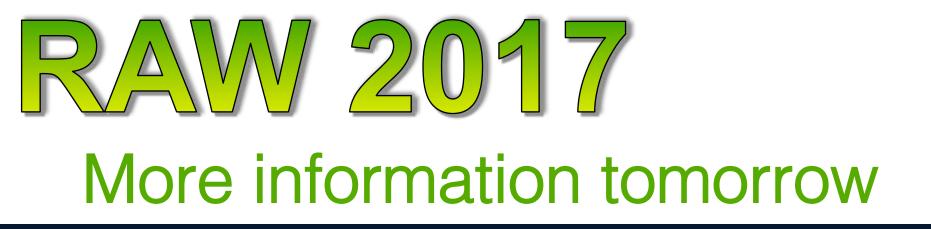
- Please use your own computer
 - Check in advance that your computer works ok with the projector
 - Contact your session chair in advance to verify that everything is ok
- Poster sessions
 - Brief oral introduction (3-4 slices, 5 mins)
 - A board will be available for each poster
 - Place your poster in advance







Looking Ahead... RAW 2017









Looking Ahead... RAW 2017

Orlando, FL, USA May, 2017









Thank you!

- Authors and attendees
- Program Committee
- The IPDPS Organizing Committee
- If you have any questions or remarks
 - R. Vaidyanathan vaidy@lsu.edu
 - Juergen Becker becker@kit.edu
 - Marco Santambrogio marco.santambrogio@polimi.it





Follow us on facebook

- We do really want to build the RAW community!
- Keep in touch with you all
- Listen to all you feedbacks, suggestions, ideas to improve the workshop

https://www.facebook.com/groups/ ReconfigurableArchitecturesWorkshop/







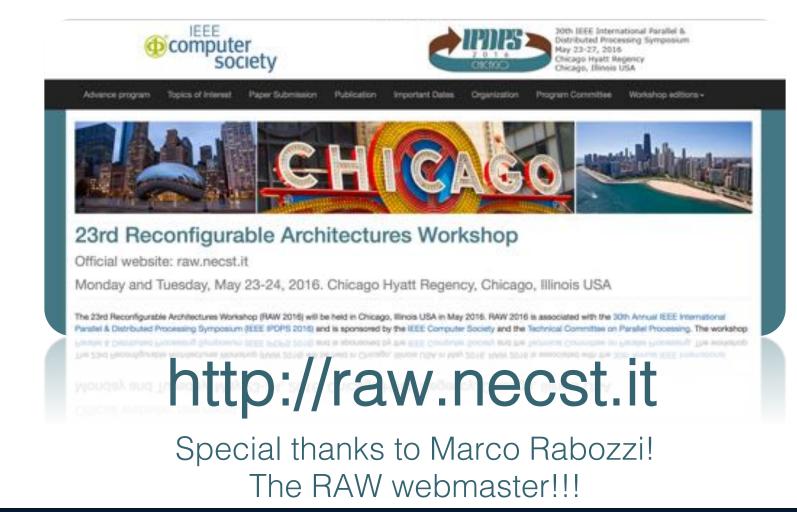
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Follow us on our "new" website!









more awesome pictures at THEMETAPICTURE.COM





Keynote

Reconfigurable Accelerators for Big Data and Cloud



H. Peter Hofstee

- Ph.D. California Inst. of Technology, 1995
- Distinguished research staff member at the IBM Austin Research Lab, USA
 - He s an IBM master inventor with more than 100 issued patents
 - Member of the IBM Academy of technology.
- Part-time professor in Big Data Systems at Delft University, Netherlands
- He was the chief architect of the Synergistic Processor Elements in the Cell Broadband Engine processor
 - in the Sony Playstation3
 - In the first supercomputer to reach sustained Petaflop operation. After returning to IBM H
- He focused on optimizing the system roadmap for big data, analytics, and cloud, including the use of accelerated compute.
 - work on coherently attached reconfigurable acceleration on Power 7 paved the way for the new coherent attach processor interface on POWER 8