



2016 Workshop on Exascale Multi/many Core Computing Systems (E-MuCoCoS 2016)

Sabri Pllana (LNU, SE) and Achim Streit (SCC, KIT, DE)

Program Committee

- Erika Abraham, RWTH Aachen University, DE
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- Achim Streit, Steinbuch Centre for Computing, KIT, DE
- Hiroyuki Takizawa, Tohoku University, JP
- Samuel Thibault, LaBRI, Université Bordeaux 1, FR

Program Overview

- 14:00 - 16:00 Session 1: Towards Exascale Computing
Chair: Sabri Pllana (LNU, SE)
- 16:00 - 16:30 Coffee Break
- 16:30 - 18:00 Session 2: Invited Talks of European Exascale Projects
Chair: Achim Streit (SCC, KIT, DE)

Session 1: 14:00 - 16:00

Towards Exascale Computing

- 14:10 - 14:40 Ivona Brandić (Vienna University of Technology, AT)

Keynote: Exascale System Management - What can we learn from efficient management of Ultra-scale Distributed Systems?

- 14:40 - 15:00 Jens Henrik Göbbert (Forschungszentrum Jülich GmbH, DE)

*Extreme-Scale In-Situ Visualization of Turbulent Flows on IBM Blue Gene/Q
JUQUEEN*

- 15:00 - 15:20 Nalini Kumar (University of Florida, US)

Behavioral Emulation for Scalable Design-Space Exploration of Algorithms and Architectures.

- 15:20 - 15:40 Yousri Mhedheb (Karlsruhe Institute of Technology, DE)

Energy Efficient Runtime Framework for Exascale Systems.

- 15:40 - 16:00 Suejb Memeti (Linnaeus University, SE)

Work Distribution of Data-parallel Applications on Heterogeneous Systems.

Session 2: 16:30 - 18:00

Invited Talks of European Exascale Projects

- 16:30 - 17:00 Hans-Christian Hoppe (Intel Deutschland GmbH, DE)

Keynote: Intel HPC Co-Design Activities in Europe

- 17:00 - 17:30 Stefano Markidis (KTH, SE)

EPiGRAM: Preparing Message-Passing and PGAS Programming Models for Exascale

- 17:30 - 18:00 Thomas Heller (FAU Erlangen-Nürnberg, DE)

AllScale: Closing the Performance Gap with Modern C++

Previous MuCoCoS Workshops

The screenshot displays a Google Maps interface with a world map. A sidebar on the left, titled "MuCoCoS", contains a list of workshop locations. The map shows several red pins with labels indicating workshop years and locations: 2013 (Norway), 2010 (Poland), 2012 (United States), 2014 (Spain), 2008 (Italy), 2011 (South Korea), and 2009 (South Korea). The sidebar lists the following locations: Barcelona, Fukuoka, Krakow, Seoul, Salt Lake City, Edinburgh, and Porto. The map also shows various countries and oceans, including the North Atlantic Ocean, South Atlantic Ocean, Indian Ocean, and Southern Ocean. The Google Maps Engine logo is visible in the bottom left corner.

MuCoCoS

workshops

- Barcelona
- Fukuoka
- Krakow
- Seoul
- Salt Lake City
- Edinburgh
- Porto

2013 Norway

2010 Poland

2012 United States

2014 Spain

2008 Italy

2011 South Korea

2009 South Korea

Google Maps Engine LITE

Keynote at MuCoCoS 2008



David A. Bader
(Georgia Tech, US)

Petascale Computing for Large-Scale Graph Problems

Keynote Speakers at E-MuCoCoS 2016



Ivona Brandić

Prof. at Vienna Univ. of Technology,
member of Young Academy of
Austrian Academy of Sciences



Hans-Christian Hoppe

Principal Engineer with Intel,
director of the ExaCluster Lab
at Research Center Jülich