

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

In conjunction with the ISC, Frankfurt Marriott Hotel, 5th floor, Room "Candela",
Frankfurt, Germany, June 23 (14h - 18h), 2016

Keynote Speaker (Academy)



Ivona Brandić

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

Keynote Speaker (Industry)



Hans-Christian Hoppe

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

- 14:00 - 16:00 Session 1: Towards Exascale Computing**
Chair: Sabri Pllana (LNU, SE)
- 14:00 - 14:10 Welcome to E-MuCoCoS 2016**
Sabri Pllana (LNU, SE) and Achim Streit (SCC, KIT, DE)
- 14:10 - 14:40 Academic Keynote: Exascale System Management - What can we learn from efficient management of Ultra-scale Distributed Systems?**
Ivona Brandić (Vienna University of Technology, AT)
- 14:40 - 15:00 Extreme-Scale In-Situ Visualization of Turbulent Flows on IBM Blue Gene/Q JUQUEEN**
Jens Henrik Göbber (Forschungszentrum Jülich GmbH, DE)
- 15:00 - 15:20 Behavioral Emulation for Scalable Design-Space Exploration of Algorithms and Architectures**
Nalini Kumar (University of Florida, US)
- 15:20 - 15:40 Energy Efficient Runtime Framework for Exascale Systems**
Yousri Mhedheb (Karlsruhe Institute of Technology, DE)
- 15:40 - 16:00 Work Distribution of Data-parallel Applications on Heterogeneous Systems**
Suejb Memeti (Linnaeus University, 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)
- 16:30 - 17:00 Industrial Keynote: Intel HPC Co-Design Activities in Europe**
Hans-Christian Hoppe (Intel Deutschland GmbH, DE)
- 17:00 - 17:30 EPiGRAM: Preparing Message-Passing and PGAS Programming Models for Exascale**
Stefano Markidis (KTH, SE)
- 17:30 - 18:00 AllScale: Closing the Performance Gap with Modern C++**
Thomas Heller (Friedrich-Alexander-Universität Erlangen-Nürnberg, DE)