

12th Workshop on Virtualization in High-Performance Cloud Computing VHPC '17

ISC-HPC 2017, June 22nd, Frankfurt, Germany

Workshop Program

9:00 - 9:10 Opening

9:10 - 10:00 **Keynote 1**

Virtualizing Multi-Petascale Supercomputers - Tokyo Tech. TSUBAME2 Experiences and R&D Towards TSUBAME3 and AIST ABCI. Satoshi Matsuoka, Professor of Computer Science (Tokyo Institute of Technology)

10:00 - 10:30 **Keynote 2**

Quantum in the Cloud. Murray Thom, Director of Professional Services (D-Wave Systems)

10:30 - 11:00 *Machine Learning using Virtualized GPUs in Cloud Environments.* Uday Kurkure, Lan Vu and Hari Sivaraman (VMware, USA)

11:00 - 11:30	Coffee Break
11:30 - 13:00	Networking
11:30 - 12:00	<i>A Locality-aware Communication Layer for Virtualized Clusters.</i> Simon Pickartz, Jonas Baude, Stefan Lankes (RWTH Aachen University, Germany) and Antonello Monti (RWTH Aachen University & Institute for Automation of Complex Power Systems, Germany)
12:00 - 12:30	<i>YASMIN: Efficient Intra-Node Communication Using Generic Sockets.</i> Michalis Rozis, Stefanos Gerangelos and Nectarios Koziris (Computing Systems Laboratory, National Technical University of Athens, Greece)
12:30 - 13:00	<i>A survey of fast packet I/O technologies for Network Function Virtualization.</i> Vincenzo Maffione and Giuseppe Lettieri (University of Pisa, Italy), Luigi Rizzo (Universita` di Pisa, Italy)
13:00 - 14:00	Lunch Break

14:00 - 15:00	Memory Implications
14:00 - 14:30	<i>Dynamic Paging Method Switching.</i> Yu Zhang, Peter Trager and Matthias Werner (Technische Universitat Chemnitz, Germany)
14:30 - 15:00	<i>Aggregating and Managing Memory Across Computing.</i> Nodes in Cloud Environments, Luis Garrido (Universidad Politecnica de Catalunya & Barcelona Supercomputing Center, Spain) and Paul M. Carpenter (Barcelona Supercomputing Center, Spain)
15:00 - 15:30	Lightning Talk <i>Initial Experiences with Deploying Singularity [HPC Containers] on a Cray XC Supercomputer,</i> Andrew Younge and Kevin T Pedretti (Sandia National Laboratories, USA)
15:30 - 16:00	Lightning Talk <i>Hypervisor support for emerging scale-out / scale-up architectures,</i> Anastassios Nanos, Michail Flouris, John G Thomson and Julian Chesterfield (OnApp, UK)
16:00 - 16:10	Concluding remarks, wrap up and follow-up for next year

Next Steps for Authors

- Upload presentations to EDAS by Friday.
- Camera Ready Deadline for proceedings: July 18, 2017.
- Pls. make sure the reviewer comments are reflected: Post a detailed rebuttal to the reviews showing and pointing to the corresponding changes you have made in your manuscript.