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 I**
*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 A Locality-aware Communication Layer for Virtualized Clusters. 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 YASMIN: Efficient Intra-Node Communication Using Generic Sockets. Michalis Rozis, Stefanos Gerangelos and Nectarios Koziris (Computing Systems Laboratory, National Technical University of Athens, Greece)

12:30 - 13:00 A survey of fast packet I/O technologies for Network Function Virtualization. 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  *Dynamic Paging Method Switching*. Yu Zhang, Peter Trager and Matthias Werner (Technische Universitat Chemnitz, Germany)

14:30 - 15:00  *Aggregating and Managing Memory Across Computing*. 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**
*Initial Experiences with Deploying Singularity [HPC Containers] on a Cray XC Supercomputer*, Andrew Younge and Kevin T Pedretti (Sandia National Laboratories, USA)

15:30 - 16:00  **Lightning Talk**
*Hypervisor support for emerging scale-out / scale-up architectures, 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.