

## Accelerated Data and Computing Workshop 6

Zurich, Switzerland, ETH Zurich Main Building  
Rämistrasse 101, 8092 Zurich Switzerland  
June 20-21, 2018

## –AGENDA–

**Wednesday, June 20, 9:00am – 18:00pm (Invitation Only) – ETH Zurich Main Building  
Room HG D 3.2**

TIME	DESCRIPTION	PRESENTER
8:30 AM	Registration	
9:00 AM	Welcome & Opening	Thomas Schulthess, ETH Zurich/CSCS
9:10 AM	<i>Plenary: Demystifying Parallel and Distributed Deep Learning ~ An In-Depth Concurrency Analysis</i>	Torsten Hoefler, ETH Zurich
10:00 AM	Emerging Technologies: Selected results from European Projects	Dirk Pleiter, Jülich Supercomputing Centre
10:30 AM	Break	
11:00 AM	“Computational Memory”: A Stepping Stone to Non-von Neumann Computing	Evangelos Eleftheriou, IBM Zurich Research Laboratory
11:30 AM	Mixed-signal neuromorphic VLSI devices for spiking neural network	Ning Qiao, Institute of Neuroinformatics, University of Zurich and ETH Zurich
12:00 PM	Lunch	
13:00 PM	OpenMP Loop Scheduling Revisited: Making a Case for More Schedules	Florina Ciorba, University of Basel
13:30PM	FPGAs and Beyond: Specialized Hardware Architectures for HPC with High-Level Synthesis	Johannes de Fine Licht, ETH Zurich
14:00 PM	Learning How to Forget	Oliver Fuhrer, MeteoSwiss
14:30 PM	Non-orthogonal Configuration Interaction for the Calculation of Electronic Couplings	Remco W.A. Havenith, University of Groningen
15:00 PM	Break	
15:30 PM	The Fast Multipole Method in molecular dynamics	Berk Hess, Royal Institute of Technology, Stockholm
16:00 PM	Appropriate Use of Containers in HPC	Bill Sparks, Cray
16:30 PM	High Performance Containers and the Convergence of Big Data and HPC	Christian Kniep, Docker
17:00 PM	Characterizing Faults, Errors, and Failures in Extreme-Scale Systems	Christian Engelmann, Oak Ridge National Laboratory
17:30 PM	Current Status of TSUBAME3.0 Operation	Toshio Endo, Tokyo Tech
18:30 PM	Banquet – <u>Sorell Hotel Zürichberg</u>	

**Thursday, June 21, 9:00am – 17:00pm (Closed Session)**

<b>TIME</b>	<b>DESCRIPTION</b>	<b>PRESENTER</b>
9:00 AM	<b>Day 2 Welcome and Logistics</b>	Thomas Schulthess
9:05 AM	<b>Update on Working Group Activities – Room HG D 3.2</b> <ul style="list-style-type: none"> <li>• Applications</li> <li>• Emerging Technologies</li> <li>• Resource Management</li> </ul>	
9:30 AM	<b>Working Group Goals and Expectations</b>	Satoshi Matsuoka, Tokyo Tech Jeff Nichols, ORNL Thomas Schulthess, CSCS
10:00 AM	<b>Break</b>	
10:30 AM	<b>Breakout Groups #1</b> <ul style="list-style-type: none"> <li>• Applications – Room HG D 3.1</li> <li>• Emerging Technologies &amp; Resource Management – Room HG D 3.3</li> <li>• Governance – Room HG E 33.5</li> </ul>	
12:00 PM	<b>Working Lunch</b>	
13:30 PM	<b>Breakout Groups #2</b> <ul style="list-style-type: none"> <li>• Applications – Room HG D 3.1</li> <li>• Emerging Technologies &amp; Resource Management – Room HG D 3.3</li> <li>• Governance – Room HG E 33.5</li> </ul>	
15:00 PM	<b>Break</b>	
15:15 PM	<b>Breakout Groups #3</b> <ul style="list-style-type: none"> <li>• Applications – Room HG D 3.1</li> <li>• Emerging Technologies &amp; Resource Management – Room HG D 3.3</li> <li>• Governance – Room HG E 33.5</li> </ul>	
16:15	<b>Final Report Out from Working Groups – Room HG D 3.2</b>	
17:00 PM	<b>Adjourn Day 2</b>	
17:30 PM	<b>Tour at ETH Zurich</b>	
18:30 PM	<b>Banquet – <u>Restaurant Mère Catherine</u></b>	