Accelerated Data and Computing Workshop

Ookayama Campus, Tokyo Institute of Technology 2-12-1 Ookayama, Meguro-ku, Tokyo 152-8550 Japan February 15-16, 2018

-AGENDA-

Thursday, February 15, 9:00am – 17:30pm (Invitation Only) West Campus Building 8 East Wing 10F, Large Meeting Room

TIME	DESCRIPTION	PRESENTER
9:00 AM	Welcome & Opening	Satoshi Matsuoka, Tokyo Tech
9:15 AM	Plenary: Engineering the Transition of Climate Models for Diverging Architectures in Next-generation Supercomputers	Mohammed Wahib, AIST OIL
	Applications	Rio Yokota, Tokyo Tech, Session Chair
10:00 AM	 Computations of Properties of Atoms and Molecules using Relativistic Coupled Cluster Theory 	Bhanu Das, Tokyo Tech
10:30 AM	Break	
11:00 AM	 Performance Evaluation of Scalable Optoelectronics Application on Large-Scale Knights Landing Cluster 	Yuta Hirokawa, University of Tsukuba
11:30 PM	 Recent Developments of Molecular Dynamics Calculation Software MODYLAS 	Yoshimichi Ando, University of Nagoya
12:00 PM	Working Lunch – Federated Testbed Architecture	CSCS, ORNL, Tokyo Tech
	Emerging Technologies - Software Ecosystem	Barney Maccabe, ORNL, Session Chair
14:00 PM	The Arm Technology Ecosystem: Current Products and Future Outlook	Dan Ernst, Cray
14:30 PM	Survey on Container Technology – Shifter Improvements	Maxime Martinasso, CSCS
15:00 PM	 Building Software Ecosystems for Al Cloud Using Singularity HPC Container 	Hitoshi Sato, AIST
15:30 PM	Performance Tools for Task Parallel Programs	An Huynh, The University of Tokyo
16:00 PM	Break	
	Emerging Technologies - Hardware Technologies	Akihiro Nomura, Tokyo Tech, Session Chair
16:30 PM	 FPGA-based Supercomputing: New Opportunities and Challenges 	Naoya Maruyama, RIKEN
17:00 PM	 In-Network Computing Architecture to Enable Next Generation HPC 	Richard Graham, Mellanox
17:30 PM	Technology Challenges and Trends Over the Next Decade	Al Gara, Intel
18:00 PM	Adjourn Day 1	
18:10 PM	TSUBAME tour	Satoshi Matsuoka, Tokyo Tech
19:00 PM	Working Dinner at Tokyo Tech Dinner Topic: Working Group Networking	

Friday, February 16, 9:00am – 17:00pm (Closed Session) West Campus Building 9 East Wing, 2F, Collaboration Room

TIME	DESCRIPTION	PRESENTER
9:00 AM	Day 2 Welcome and Logistics - West Campus Building 9 East Wing, 2F	Satoshi Matsuoka, Tokyo Tech
9:05 AM	 Update on 2017 Activities Applications Emerging Technologies Resource Management 	
10:00 AM	Working Group Charge and Expectations	Satoshi Matsuoka, Tokyo Tech Jeff Nichols, ORNL Thomas Schulthess, CSCS
10:15 AM	Break	
10:30 AM	 Applications - West Campus Building 8 East Wing 10F Emerging Technology - GSIC Building 2F Resource Management - West Campus Building 9 East Wing, 2F Governance - GSIC Building First Floor Director's Room 	
12:00 PM	Working Lunch	Working groups continue work
13:00 PM	 Breakout Groups #2 Applications - West Campus Building 8 East Wing 10F Emerging Technologies and Resource Management - GSIC Building 2F Governance- GSIC Building First Floor Director's Room 	
15:00 PM	Break	
15:15 PM	 Breakout Groups #3 Applications- West Campus Building 8 East Wing 10F Emerging Technology - GSIC Building 2F Resource Management - West Campus Building 9 East Wing, 2F Governance- GSIC Building First Floor Director's Room 	
16:15	Final Report Out from Working Groups - West Campus Building 9 East Wing, 2F	
17:00 PM	Adjourn Day 2	
17:30 PM	Bus leaves from Tokyo Tech to Ryogoku (Hananomai)	
18:30 PM	Working Dinner – Hananomai Dinner Topic: Future plans for HPC at Tokyo Tech, Satoshi Matsuoka, Tokyo Tech	