## ${\it CCS}$ International Symposium 2020

## 12th symposium on Discovery, Fusion, Creation of New Knowledge by Multidisciplinary Computational Sciences

October 6, 2020

https://www.ccs.tsukuba.ac.jp/sympo20201006en/

Parallel Session 7: HPC systems

Time: 16:20 - 17:37 (JST)

Place: <a href="https://zoom.us/j/98975445057">https://zoom.us/j/98975445057</a>

Convenor: Daisuke Takahashi (CCS, University of Tsukuba)

Time	Speaker	Title
(5 + 2 min. each)	(Affiliation)	
16:20 – 16:27	Daisuke Takahashi	Implementation of Parallel 3-D Real FFT
	(University of	with 2-D Decomposition on Intel Xeon Phi
	Tsukuba)	Clusters
16:27 – 16:34	Masahiro Nakao	Development of parallel language
	(RIKEN Center for	XcalableMP 2.0 with high performance
	Computational	portability
	Science)	
16:34 – 16:41	Taisuke Boku	Computation and communication unified
	(University of	supercomputing with GPU+FPGA multi-
	Tsukuba)	accelerator
16:41 – 16:48	Miwako Tsuji	Scalable communication performance
	(RIKEN Center for	prediction for exascale-codesign
	Computational	
	Science)	
16:48 – 16:55	Toshiyuki Imamura	Reduced/extended/Mixed-precision matrix
	(RIKEN Center for	computations on FPGAs and GPGPUs
	Computational	
	Science)	
16:55 - 17:02	Naohito Nakasato	Performance Evaluation of Various
	(The University of	Floating-point Units
	Aizu)	
17:02 – 17:09	Kentaro Sano	Development of Communication Subsystem
	(RIKEN Center for	for Inter-FPGA Networks

	Computational	
	Science)	
17:09 – 17:16	Shunta Kikuchi	Network Intrusion Detection System based
	(The University of	on Hybrid FPGA/GPU Pattern Matching
	Tokyo)	
17:16 – 17:23	Toshihiro Hanawa	Investigation of offloading with
	(The University of	transprecision on FPGA and GPU
	Tokyo)	