Summary Report on HPC Asia 2021

National Supercomputing Center, KISTI July 2, 2021 Soonwook Hwang

Overview of HPC Asia 2021

- ♦ held on Jan. 20 22 as a virtual event
 - ✓ originally planed to be held as in-person conference in Jeju Island
- ◆The main event was held on the first two days (Day 1-2)
 - √3 keynote talks, 3 technical paper sessions and 1 poster session
 - ① "Update on the US Department of Energy Exascale Computing Project"
 - by Douglas B. Kothe, Director, ECP project, ORNL
 - 2 "Future Supercomputers are game changers for processor architecture, Why?"
 - by Jean-Marc Denis, Chairman of the Board, European Processor Initiative
 - (3) "An HPC Deep Learning Framework for Al Cloud"
 - by Jaejin Lee, Professor, Seoul National University
- ◆Workshops was held on Day 3
 - √3 workshops organized
 - ① Multi-scale, Multi-physics and Coupled Problems on highly parallel systems (MMCP)
 - 2 Intel eXtreme Performance Users Group (IXPUG)
 - 3 Recent Progresses on Quantum Information Sciences and Technology

The Operation and Sessions of HPC Asia 2021 (1/2)

- ◆Keynote talks, technical paper discussion and poster sessions ran online and live using Zoom on Day 1 2
 - ✓We have 3 keynote talks, 13 paper presentations (out of 21 submissions) and 4 poster presentations
 - ✓On Day 1, we had two 2-hour sessions, one in the morning and the other in the afternoon
 - Each session with ~1-hour keynote talk followed by about ~1-hour technical paper discussion session with about 4 papers presented (/w 5-min summary talk + 5-min Q&A)
 - ✓On Day 2, we had one 2-hour session in the morning and one poster session in the afternoon
 - ✓ Considering the world-wide time zone, the morning session was arranged to start at 8 am and the afternoon session at 2 pm local time.

The Operation and Sessions of HPC Asia 2021 (2/2)

- ◆All the 13 paper presentations were video-recorded in advance and put up on the conference website so that attendees could take a look at the presentations in advance
 - ✓The length of each talk was about 25 minutes or so
 - ✓ Session chairs could gather pre-asked questions in advance through the website and emails
- ◆3 Workshops ran online and live using Zoom on Day 3
 - ✓IXPUG started held in morning (from 09:00 to 13:00)
 - ✓ Quantum Information held in afternoon (from 13:00 to 17:00)
 - ✓MMCP 2021 held in the evening (from18:30 to 21:10)

Attendees

◆ a total of 575 registrations from 30 countries

Nation Nation	Registration
South Korea	366
Japan	94
India	23
USA	18
Germany	15
France	10
Taiwan	7
Myanmar	6
UK	5
Bangladesh	3
Canada, Hong Kong, Indonesia, Iran, Malaysia, Singapore, Spain, Turkey	2
Austria, Brazil, Colombia, Cyprus, Egypt, Hungary, Israel, Kenya, Mongolia, Pakistan, Saudi Arabia, Sweden	1

The Number of Attendees for Each Session

Date	Session	# of attendees
Jan. 20, 2021 (Day 1)	(Morning) Session 1	170
	(Afternoon) Keynote & Session 2	195
Jan. 21, 2021 (Day 2)	(Morning) Keynote & Session 2	150
	(Afternoon) Keynote & Poster	168
Jan. 22, 2021 (Day 3)	(Morning) IXPUG Workshop	124
	(Afternoon) Quantum Information Workshop	122
	(Evening) MMCP Workshop	38

Registration Fee

* Attendees can register for FREE to attend the conference remotely.

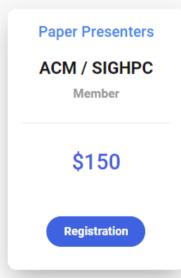
* Authors are required to pay a registration fee to cover the costs of handling and publishing their submission.

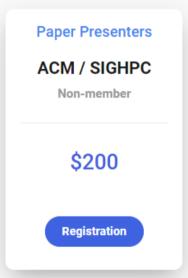
(Payment result will be reflected the next day, so please be careful not to make double payments.)

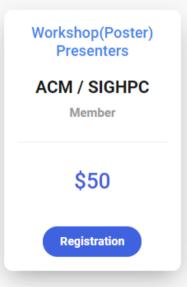
Attendee Registration

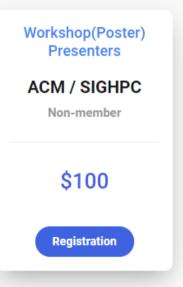
Attendee Free Registration

Presenter Regiatration









Paper Submission & Finance

- ◆Number of Submissions and Accepted Papers
 - ✓ Number of Submissions (from 11 countries): 22
 - ✓ Number of Accepted Papers : 13 (Acceptance rate 59%)

◆High level final budget numbers

✓Income (Total)	\$30,960.90
✓ Registration	\$3,767.50
✓ Financial Support from KISTI	\$27,193.40
✓Expenditure (Total)	\$30,960.90
✓ Preparation	\$19,240.95
✓ Conference & Post-processing	\$11,719.95

Summary

- ◆the first HPC Asia conference that was held virtually
 - ✓It was quite a challenge for us to come up with the smooth operation of a virtual event leading to strong participation and engagement under unprecedented circumstances
- ◆Even with relatively small numbers of paper submission, we tried hard to put together a solid program by selecting high-quality papers
- ◆Despite concerns of COVID-19, HPC Asia 2021 was quite a successful, especially, in terms of drawing the largest gatherings ever
 - ✓a total of 575 registrations from as many as 30 countries.