

# Summary Report on HPC Asia 2021

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# Overview of HPC Asia 2021

- ◆ held on Jan. 20 – 22 as a virtual event
  - ✓ originally planned 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 AI Cloud"  
- by Jaejin Lee, Professor, Seoul National University
- ◆ Workshops were 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 (from 18:30 to 21:10)

# Attendees

◆ a total of 575 registrations from 30 countries

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

## Presenter Registration

<b>Attendee</b>	<b>Paper Presenters</b> <b>ACM / SIGHPC</b> Member	<b>Paper Presenters</b> <b>ACM / SIGHPC</b> Non-member	<b>Workshop(Poster) Presenters</b> <b>ACM / SIGHPC</b> Member	<b>Workshop(Poster) Presenters</b> <b>ACM / SIGHPC</b> Non-member
Free	\$150	\$200	\$50	\$100
<a href="#">Registration</a>	<a href="#">Registration</a>	<a href="#">Registration</a>	<a href="#">Registration</a>	<a href="#">Registration</a>

# 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.