A MONTHLY E-NEWSLETTER BY NSCC SINGAPORE

NEWSBYTES

CORPORATE NEWS

A snapshot of NSCC Singapore's key updates and ongoing collaborations

Image Credit: Infocomm Media Development Authority (IMDA)

Featured Read of the Month!

Enabling Southeast Asia's Empathetic AI: NSCC Singapore Supports the Growth of MERaLiON

NSCC Singapore's high performance computing (HPC) capabilities support A*STAR Institute for Infocomm Research (I²R) in the development and scaling of MERaLiON, Southeast Asia's first multimodal, empathetic large language model (LLM). The model is a flagship project under Singapore's National Multimodal LLM Programme (NMLP), and was trained using compute resources from NSCC Singapore's ASPIRE 2A+ supercomputer.

Designed to reflect the region's diverse languages, cultures, and communication styles, MERaLiON integrates emotional intelligence, audio and paralinguistic detection, and cultural awareness to enable more human-centric AI experiences. The newly launched Version 2 expands support for regional languages such as Bahasa Indonesia, Thai, Vietnamese, and Singlish, and introduces features like code-switching and emotion-aware speech understanding.

Read more

NSCC Singapore and AMD Advance AI Talent Development with Hands-On Workshop

As part of continued efforts to build AI and HPC capabilities in Singapore, NSCC Singapore partnered with AMD to conduct a two-day AI-LLM workshop. The workshop was designed to equip developers, engineers, and researchers with practical knowledge in using AMD Instinct™ GPUs and the ROCm™ Software Development Ecosystem for AI and machine learning workloads.

Read more

Introducing HPC to the Next Generation of Innovators

NSCC Singapore recently hosted an HPC Introductory Workshop for 24 computing students from National University of Singapore (NUS) High School, aimed at introducing them to the fundamentals of HPC, potential career pathways, and hands-on experience running real-world benchmarks.

Read more

Harnessing HPC for Breakthroughs in Cancer Genomics

As cancer genomics enters a new era, the integration of HPC and AI-driven analytics is accelerating scientific discovery. To address the challenge of processing large genomics datasets, Dr Jason Pitt's team at Cancer Science Institute of Singapore (CSI Singapore) developed a high-performance workflow designed to harmonise massive amounts of genomic data, enabling faster and more reliable analysis.

The development of Scalable Workflows for the Analysis of Genomes (SWAG), supported by NSCC Singapore's HPC resources, have played a key role in significant breakthroughs in understanding the genetic causes of cancer.

Read more

NSCC Singapore Heads to ISC 2025 to Connect, Share and Learn

NSCC Singapore will be participating as an exhibitor at ISC High Performance 2025 this June in Hamburg, joining the global HPC community to present Singapore on a global stage, learn from international best practices, and build deeper connections with supercomputing centres worldwide.

At our booth, we'll be showcasing what it's like to operate a national supercomputing centre in the tropics. Visitors can join in our live demonstrations and explore our in-house tools — EcoTuner and HPC Pulse Insights Dashboard.

Read more

THE LAST BYTE

Shared reads and cool finds from the HPC world

Dongarra: Challenges to High-Performance Computing Threaten US Innovation

Image credit: HPCwire

The US has enjoyed an HPC advantage in the past thanks to government funding, support, and an open development environment. Dongarra mentions that advanced computing is now a global race with an effort to provide sovereign HPC capabilities.

Read more

IonQ & KISTI Collaborate to Advance Quantum Computing in South Korea

Image credit: Quantum Zeitgeist

IonQ and the Korea Institute of Science and Technology Information (KISTI) have signed a memorandum of understanding (MoU) to collaborate on four key areas: infrastructure access, education, talent exchange, and market expansion. The partnership intends to integrate IonQ's quantum systems with KISTI's high-performance computing infrastructure, bolstering South Korea's national quantum strategy and research capabilities.

Read more

Taiwan's NCHC Deploys NVIDIA-Powered Supercomputer for AI, Climate, and Quantum Research

Image credit: Quantum Computing Report

NCHC in Taiwan has announced a new AI supercomputing system designed to support research in quantum computing, sovereign AI, and climate science. The new system is to be built by ASUS and powered by NVIDIA technologies. Interconnected by NVIDIA Quantum InfiniBand, the system is expected to provide over eight times the AI performance of the previous Taiwania 2 system and will become operational later this year.

Read more

Want to feature your research in NSCC Singapore's NewsBytes?

We're looking for guest contributors for our monthly newsletter, shared with over 7,500 subscribers.

If you're keen to share your work, email us at e-news@nscc.sg – we'd love to hear from you!

We'd Love Your Feedback!

Got a minute? Help us improve our newsletter by sharing your thoughts.

As a valued subscriber, your input helps us tailor content to better suit your interests.

Submit here

Powering Innovation Supercomputing in Asia

National Supercomputing Centre (NSCC) Singapore
1 Fusionopolis Way, Connexis South, #17-01 Singapore 138632

Copyright © 2025 National Supercomputing Centre (NSCC) Singapore. All rights reserved.
Unsubscribe from this list
(Please note that you will still receive NSCC Technical Updates if you are an existing ASPIRE 2A user)