



CORPORATE NEWS

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



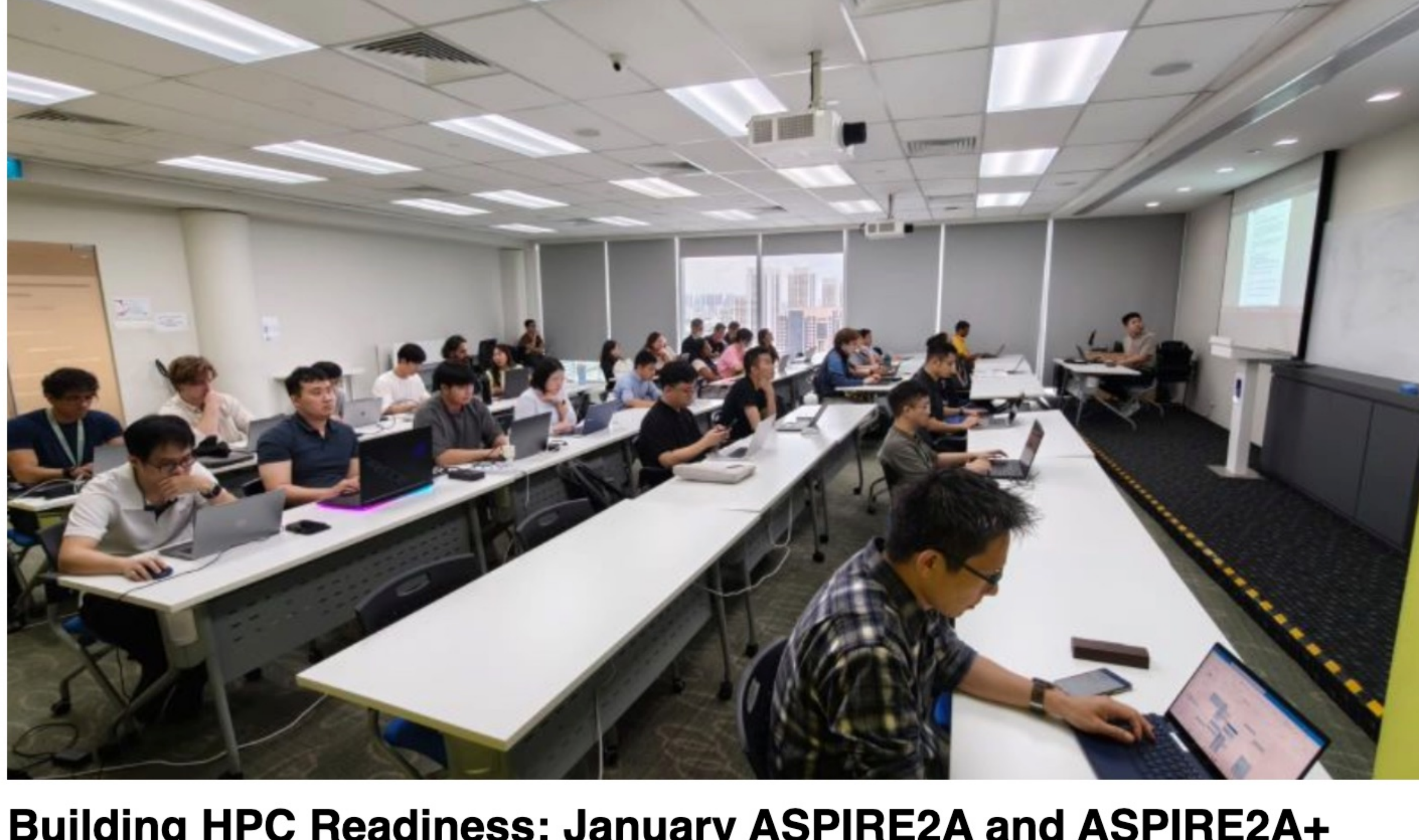
★ **Featured Read of the Month!**

Reinventing Liquid Forging: How Modelling and Simulation Enable Predictive Manufacturing

Liquid forging is a process where molten metal is poured into a die and then compressed under high pressure to form dense, high-quality components. Because the behaviour of the metal during filling and deformation is complex and difficult to predict, manufacturers often rely on repeated trial-and-error, resulting in long development cycles, material wastage and inconsistent outcomes.

To address these challenges, the A*STAR Institute of High Performance Computing (A*STAR IHPC) is developing a predictive digital tool that can rapidly assess part processability, recommend optimal parameters, and help ensure defect-free outcomes. This capability is especially transformative for small and medium sized enterprises (SMEs), enabling them to minimise cost and resource burdens, accelerate development, and make confident, data-driven manufacturing decisions.

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Building HPC Readiness: January ASPIRE2A and ASPIRE2A+ Workshops

NSCC Singapore kicked off the new year with two introductory training workshops in January, aimed at onboarding new users and supporting the growing high performance computing (HPC) community on the ASPIRE 2A and ASPIRE 2A+ supercomputers. These sessions play a key role in ensuring researchers—including awardees from the 6th Call for Projects—are well prepared to leverage national supercomputing resources as they begin their research cycles.

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NSCC Singapore at SCA/HPC Asia 2026: Advancing the Frontiers of HPC, AI, and Quantum

Held in Osaka, Japan from 26 to 29 January 2026, the SupercomputingAsia 2026 / High Performance Computing Asia 2026 (SCA/HPCAsia 2026) conference marked a major milestone for the regional and global HPC community. This year's edition achieved record participation, welcoming 2555 delegates from 45 countries. A strong technical programme —comprising 36 accepted papers, 154 accepted posters, 49 workshops and tutorials, 29 Birds of a Feather sessions and 23 Invited Sessions—reinforced SCA's growing stature as a leading international platform for supercomputing, Artificial Intelligence (AI), and emerging technologies.

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THE LAST BYTE

Shared reads and cool finds from the HPC world

Set-up of quantum computers in Singapore to give app development a leg-up: Josephine Teo



The setting up of quantum computers on local shores is crucial to strengthening Singapore's role as a quantum infrastructure hub as the race to develop real-world applications continues, said Minister for Digital Development and Information Josephine Teo.

Since 2002, Singapore has invested a total of \$700 million in quantum technology research, with the most recent \$300 million top-up in 2024. The National Quantum Computing Hub, the site of Singapore's first quantum computer used mostly for research purposes, has also been exploring applications in sectors such as finance, drug discovery and logistics.

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Image credit: The Straits Times

RIKEN, Argonne National Laboratory, Fujitsu, and NVIDIA collaborate to advance AI and HPC



RIKEN has signed a Memorandum of Understanding (MoU) with Argonne National Laboratory (ANL), Fujitsu Limited (Fujitsu), and NVIDIA in the fields of artificial intelligence (AI) and high-performance computing (HPC). This partnership aims to build and utilize next-generation computing infrastructure, develop and evaluate system software and applications for science and engineering, and promote the use of advanced AI technologies for science.

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Image credit: RIKEN

Saudi Arabia's KAUST advances AI training with winter school



King Abdullah University of Science and Technology is hosting the second MenaML Winter School, in partnership with the Ministry of Communications and Information Technology, from Jan. 24 to 29. It brings together leading researchers, scientists, and specialists in artificial intelligence from across the Middle East and North Africa, the Saudi Press Agency reported. The program aims to advance scientific research and build specialized technical skills through an intensive curriculum covering both theoretical and applied AI.

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Image credit: SPA

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