

THE FOURTH APAC HPC-AI COMPETITION

Jointly Organized by HPC-AI Advisory
Council and National Supercomputing
Centre (NSCC) Singapore



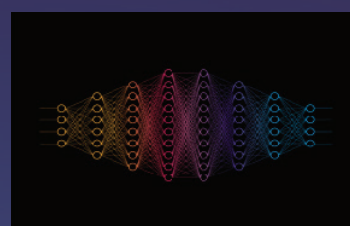
High-Performance Computing (HPC) and Artificial Intelligence (AI) are the most essential tools fueling the advancement of science. In order to handle the ever-growing demands for higher computational performance and the increasing complexity of research problems, the world of scientific computing continues to re-innovate itself in a fast pace.

Founded in 2008, the HPC-AI Advisory Council is a for community benefit organization with over 400 members (including leading universities, government laboratories and companies around the world) committed to bridging HPC and AI use and potential. The organization helps bring these beneficial capabilities to new users to support improved research, education, innovation and development, and provides users with the expertise, tools and techniques to integrate, optimize and run complex parallel computing applications, products and platforms.

The HPC-AI Advisory Council and NSCC have jointly announced the fourth APAC HPC-AI Competition on 2nd March 2021 during the SupercomputingAsia 2021 (SCA21) Conference. The competition encourages international teams in the APAC region to showcase their HPC and AI expertise in a friendly yet spirited environment that builds critical skills, professional relationships, competitive spirits and lifelong comradesries.

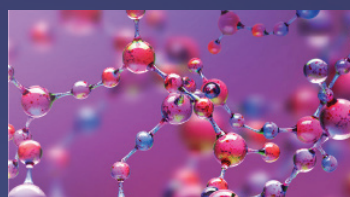
DLRM (Deep Learning Recommendation Model) is a neural network-based recommendation tool. It is a state-of-the-art deep learning recommendation model, developed by Facebook, in both PyTorch and Caffe2 frameworks, and will be used in AI tasks during the HPC-AI Competition to utilize the model parallelism while exploiting data parallelism to scale-out compute from the fully connected layers.

> <https://github.com/facebookresearch/dlrm>



Continuing the global fight against COVID-19, GROMACS (GRONingen MACHINE for Chemical Simulations), a popular molecular dynamics simulation tool designed for biochemical molecules like proteins and nucleic acids, has been chosen as the platform to be used in HPC tasks during the HPC-AI.

> <http://www.gromacs.org/>



About HPC-AI Advisory Council

Founded in 2008, The HPC-AI Advisory Council (HPCAIA) is a for community benefit organization with over 400 members committed to promoting HPC and AI through education and outreach.

Find out more about HPCAIC and become a member at hpcadvisorycouncil.com

Register and participate
in the 4th APAC HPC-AI
Competition

REGISTER HERE