

# THE FOURTH APAC HPC-AI COMPETITION

Joint Organized by  
HPC-AI Advisory Council  
and NSCC Singapore



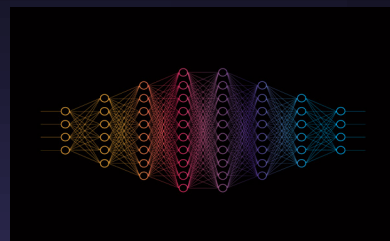
**High-performance computing and Artificial Intelligence are the most essential tools fueling the advancement of science. In order to handle the ever growing demands for higher computation performance and the increase in the complexity of research problems, the world of scientific computing continues 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 high-performance computing and artificial intelligence 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 the National Supercomputing Centre (NSCC) Singapore will jointly announce the fourth APAC HPC-AI Competition on March 2nd, 2021 during SCAsia21. The competition encourages international teams in the APAC region to showcase their HPC and AI expertise in a friendly yet spirited competition that builds critical skills, professional relationships, competitive spirits and lifelong comrades.

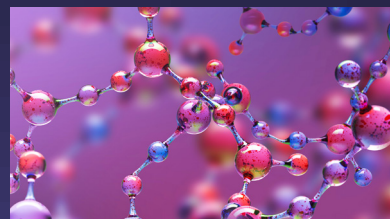
- DLRM (Deep Learning Recommendation Model) is a neural network-based recommendation tool. It is a state-of-the-art deep learning recommendation model which Facebook developed in both PyTorch and Caffe2 frameworks. It will be used for AI tasks of HPC-AI competition to utilize the model parallelism while 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, will be chosen as the HPC task for the HPC-AI competition.

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



## About HPC-AI Advisory Council

Founded in 2008, The HPC-AI Advisory Council (HPCAIAC) is a for community benefit organization with over 400 members committed to promoting HPC and AI through education and outreach. Find out more, become a member @ [hpcadvisorycouncil.com](https://twitter.com/hpcadvisorycouncil)

Welcome to register and participate  
in the 4th APAC HPC-AI Competition

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