



ADVANCED COMPUTING PLATFORM

Monash University Malaysia's Advanced Computing Platform (ACP) offers high-performance computing infrastructure to accelerate research across natural and social sciences.

Supported by the Research Excellence Unit and managed by the School of Information Technology, ACP enables multidisciplinary projects in fields such as machine learning, computer vision, genome analysis, and more, helping researchers publish in top journals and conferences.

EXPERTISE

Our team specialises in leveraging Monash University's Advanced Computing Platform (ACP) to advance artificial intelligence (AI) research. With expertise in AI algorithms, machine learning, and neural networks, we apply high-performance computing to drive innovation in computer vision, natural language processing, predictive analytics, and more across diverse fields.

KEY INSTRUMENTATION

The ACP supports research requiring big data analytics and AI with:

- High-performance computing clusters for fast computations
- Specialised hardware accelerators for AI and data processing
- Optimised frameworks and libraries for machine learning and deep learning
- Tools for data preprocessing and feature engineering
- Support for computer vision and natural language processing tasks
- Scalability for large datasets and complex AI models
- Integration with big data platforms for massive data analysis

WORKING WITH US

- Fee for service
- Consultancies
- Collaborative research
- Training

SPECIALIST SERVICES

Our platform offers fee-for-service, consultancy, and collaborative research opportunities to empower your AI and data science projects. In detail, we offer expert software application support for HPC projects, assisting with conceptualisation, development, troubleshooting, and ongoing support. We work with researchers on tools like Ansys, Discovery Studio, GROMACS, LAMMPS, VASP, Quantum Espresso, OpenFOAM, deep learning frameworks (PyTorch, TensorFlow, Keras), genomics tools (GATK, BCFTool, BEDTool), and MATLAB. We stay current with emerging technologies and collaborate with peer HPC organisations to meet evolving analytical needs.

Specialist Service #1: Internal And External Access

Internal researchers enjoy free access to HPC clusters and tools; external researchers can access services for a fee.

Specialist Service #2: Consultancies

Our HPC specialists provide technical advice, optimise workflows, and assist with project planning and troubleshooting.

Specialist Service #3: Collaborations

We partner with researchers on joint projects in AI, data science, and related fields, fostering impactful results, publications, and innovations.

Specialist Service #4: Training Programs

We offer workshops, seminars, and hands-on sessions to build skills in HPC, data analytics, and AI, enabling researchers to fully utilise platform resources.

Advanced Computing Platform

Building 9, Level 5, School of Information Technology,

Monash University Malaysia

E mum-acp@monash.edu

Dr Mohd Fikree bin Hassan

Director

T +603-55146075

E mohdfikree.hassan@monash.edu

Dr Lim Jun Yi (Marcus)

High Performance Computing Specialist

T +603-55161378

E lim.junyi@monash.edu

monash.edu.my/research/acp