ABOUT HKUST BIG DATA INSTITUTE

HKUST Big Data Institute (BDI) was established based on the requirements from both industry and society, and the need to coordinate faculty’s research work and activities on Big Data and Data Science at HKUST. BDI strives to provide a strong and highly visible leadership role in Big Data and Data Science research in Hong Kong and the world by setting up well-known education programs, coordinating and developing cross-institutional and cross-departmental research projects in Big Data and Data Science. Meanwhile, BDI proactively develops undergraduate and postgraduate teaching programs and engages in community outreach.

Mission

- To engage in emerging Big Data cross-disciplinary research that will have a long-term, transformative effect on Hong Kong and nation’s Big Data applications;

- To develop technologies, policies, and educational programs that have the potential for offering high-impact solutions to pressing national Big Data related issues;

- To focus on developing a Big Data platform to transfer technology developed for Big Data extraction, integration, management, mining and visualization to real products.

Vision

BDI is committed to building a general intelligence platform based on big data, combining the research areas from data to apps with a closed loop, which technically helps the city development, thereby, improving the way people learn, work, play and live in future.
EDUCATION PROGRAMS

One of BDI's goals is to develop high quality undergraduate and postgraduate degree programs and to nurture highly qualified Big Data professionals for the industry and society. BDI is committed to develop undergraduate Big Data science and engineering programs that meet the society's needs and professional requirements. We also provide postdoctoral training to nurture future leaders in Big Data education and research.

Postgraduate Program
- MSc in Big Data Technology
- MSc in Business Analytics

Undergraduate Program
- BSc in Data Science and Technology
- Minor in Big Data Technology

RESEARCH PROJECTS AND JOINT LABS

As a place for cutting-edge research and application in Big Data and AI, BDI is dedicated to establish academic-industry collaborations through different partnership initiatives, including joint labs, research projects.

Big Data Bio-Intelligence (BDBI) and Machine Learning Lab
BDBI aims at developing advanced machine learning systems and promoting applications of machine learning in bio and genetic areas.

Smart City Transportation Lab
The lab aims at developing and using AI and Big Data technologies in smart city applications. It includes Thales-HKUST project to generate early warning for public places such as subway in case of emergency, and a people-centered big data integration and analytic project partnered with Digital China. Both projects are funded by Innovation and Technology Fund (ITF) of HKSAR Government.

HKUST-NAVER/LINE AI Laboratory
This joint lab aims to develop a comprehensive set of research and talent-development programs to pursue cutting-edge research for advancement of AI technology and enrich the learning experience for both undergraduate and postgraduate students.

WECHAT-HKUST Joint Lab on Artificial Intelligence (WHAT Lab)
A collaboration with WeChat focuses on social networking big data mining and machine learning, natural language processing and robotics research.

PEOPLE

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