

Keynote Speakers



Chair Professor, Yu-Chee Tseng

Department of Computer Science, National Chiao Tung University, Taiwan

Director, Pervasive AI Labs, MOST

Director, MicroInfo Center

Founding Dean, College of Artificial Intelligence

National Chair Professorship of the Ministry of Education, 2019

The Academic Award of the Ministry of Education, 2014

Teco Award, 2013.

Y. Z. Hsu Scientific Chair Professor, 2012

Professor and Dean, College of Computer Science, NCTU, 2011-2017

Title : Building an AI Vision Platform (打造一個 AI 視覺平台)

Abstract

We intend to build a computer vision platform that can leverage the recent advancement of deep learning. We will cover several critical issues in building such an AI vision platform. First, a data centric architecture with pub-sub data management is created. Second, as video data requires a lot of transmission bandwidth, it is critical to use decentralized peer-to-peer data communications to avoid bottlenecks. Third, the platform needs to support efficient execution of deep learning models by decentralizing its processing. Fourth, creating new models to solve new computer vision challenges remains an important issue. We demonstrate our current platform and present several progresses in developing deep learning models.