專 題 演 講

講 者： 朱威達教授 （成功大學資訊工程系）

題 目： Pathology Image Classification and Anomaly Detection

大 綱：

We will introduce our preliminary studies on whole slide image (WSI) analysis, including classification, segmentation, and anomaly detection. The analysis of WSIs is challenging because of their extremely high spatial resolution compared with other medical imaging modalities. Weakly-supervised approaches, especially multiple instance learning (MIL), are thus widely employed to ease the burden of manual labeling. In this talk, we will discuss our proposed MIL method that involves new ideas of context learning and transformer-based feature aggregation. In addition, we will also discuss a research branch related to unsupervised anomaly detection.

簡 歷：

Wei-Ta Chu received the B.S. and M.S. degrees in Computer Science from National Chi Nan University, Taiwan, in 2000 and 2002, and received the Ph.D. degree in Computer Science from National Taiwan University, Taiwan, in 2006. He was a Professor in National Chung Cheng University from 2007 to 2019. He is now a Professor in the Department of Computer Science and Information Engineering, National Cheng Kung University, Taiwan. His research interests include digital content analysis, multimedia indexing, deep learning, and pattern recognition.