

# 數據科學系列演講

## Data Science Seminar



2018.10.31 Wed  
15:30-17:20

國立交通大學光復校區  
工程三館 115

### 講題：Deep Transfer Learning for Visual Analysis

Recent development of deep learning technologies benefits a variety of applications in computer vision. Among research topics in deep learning and computer vision, transfer learning particularly focuses on bridging information across data domains, so that feature representation or learning models observed in one (source) domain can be applied to another (target) domain of interest. In practice, since one might not be able to collect or annotate ground truth labels for the target-domain data, how to advance deep transfer learning techniques for solving this task would be very challenging. In this talk, I will cover our recent ICCV/AAAI/CVPR works on semantic segmentation, multi-label classification, image translation and representation disentanglement, which are all associated with learning from cross-domain data. I will discuss how we advance and extend existing deep learning models, and adapt such models for addressing the above tasks of interest.

### 主講者：Yu-Chiang Frank Wang

Yu-Chiang Frank Wang received the B.S. degree in Electrical Engineering from National Taiwan University, Taipei, Taiwan in 2001. He obtained his M.S. and Ph.D. degrees in Electrical and Computer Engineering from Carnegie Mellon University, Pittsburgh, USA in 2004 and 2009, respectively. In 2009, he joined the Research Center for Information Technology Innovation (CITI), Academia Sinica, Taiwan, where he was promoted from assistant to associate research fellow in 2013, and served as the Deputy Director of the center since 2015.

In 2017, Dr. Wang joined the Dept. Electrical Engineering at National Taiwan University, where he currently holds the position as an associate professor. Leading the Vision and Learning Lab at NTU, Dr. Wang's research interests span the fields of computer vision, machine learning, pattern recognition, and image processing. His research works are published in top-tier conferences (e.g., CVPR, ICCV, ECCV, and AAAI) and major journals (e.g., IEEE Trans. Image Processing and IEEE Trans. Multimedia) of the above research fields. Dr. Wang is also active in serving local and international research communities. He is the Program Co-Chair of IEEE AVSS 2019, CVGIP 2016, and IEMV 2014, and the Local Arrangement Co-Chair of ACCV 2016 and APMAP 2018. He was the invited speakers of WCF, ACML, and TWSIAM, and regularly serves as the TPC/PC/Area Chairs of ICCV, ICME, FG, IJCAI, and ACCV. Dr. Wang and his team received the First Place Award at Taiwan Tech Trek by the National Science Council (NSC) of Taiwan in 2011. His papers are also nominated for the Best Paper Awards at IEEE ICIP, IEEE ICME, IEEE AVSS, and IAPR MVA. In 2013 and 2017, he was twice selected among the Outstanding Young Researchers by the Ministry of Science and Technology (MOST), Taiwan.

數據科學與工程研究所

Institute of Data Science and Engineering