

## 專題演講講者介紹

### 易志偉博士

#### 主要學歷：

- *Ph.D. in Computer Science*, Illinois Institute of Technology, Chicago, IL, USA, August 2000 - May 2005.
- *M.S. in Computer Science and Information Engineering*, National Taiwan University, Taipei, Taiwan, September 1991 - June 1993.
- *B.S. in Mathematics*, National Taiwan University, Taipei, Taiwan, September 1987 - June 1991.



#### 現職：

國立陽明交通大學資訊工程學系 教授

#### 經歷：

- *Director*, Institute of Computer Science and Engineering, National Chiao Tung University, Hsinchu City, Taiwan, August 2019 – July 2022.
- *Associate Dean*, College of Computer Science, National Chiao Tung University, Hsinchu City, Taiwan, August 2019 – July 2020.
- *Director*, Institute of Network Engineering, National Chiao Tung University, Hsinchu City, Taiwan, August 2016 – July 2019.
- *Professor*, Department of Computer Science, National Chiao Tung University, Hsinchu City, Taiwan, August 2014 - Present.
- *Associate Professor*, Department of Computer Science, National Chiao Tung University, Hsinchu City, Taiwan, August 2009 - July 2014.
- *Assistant Professor*, Department of Computer Science, National Chiao Tung University, Hsinchu City, Taiwan, August 2005 - July 2009.
- *Director and Lecturer*, Department of Information Management, Dahan Institute of Technology, Hualien, Taiwan, August 1999 - July 2000.
- *Lecturer*, Department of Computer Science and Information Engineering, Dahan Institute of Technology, Hualien, Taiwan, September 1997 - July 1999.
- *Assistant Manager*, Computer Center, Hualien First Credit Cooperative, Hualien, Taiwan, July 1995 - August 1997.
- *System Engineer*, Open System Group, SYSCOM Inc., Taipei, Taiwan, August 1993 - July 1995.

#### 簡歷：

Dr. Tsì-Uí Ík is a Professor with the Department of Computer Science, National Yang Ming Chiao Tung University. He received his B.S. in Mathematics and M.S. in Computer Science and Information Engineering from the National Taiwan University in 1991 and 1993, respectively, and Ph.D. in Computer Science from the Illinois Institute of Technology in May 2005. He is a member of the Institute of Electrical and Electronics Engineers (IEEE). He had been a Senior Research Fellow of the Department of Computer Science, City University of Hong Kong. He was named the Outstanding Young Engineer by Chinese Institute of Engineers, Taiwan, 2009. He received the Young Scholar Best Paper Award from IEEE IT/COMSOC Taipei/Tainan Chapter, 2010. His research focuses on wireless ad hoc and sensor networks, mobile sensing, data mining, intelligent transportation systems, and sports science.

He has published more than 30 papers in top ranking journals, including IEEE Transactions on Wireless Communications, IEEE Transactions on Parallel and Distributed Systems, IEEE Transactions on Communications, Theoretical Computer Science (TCS), Algorithmica, IEEE/ACM Transactions on Networking, IEEE Transactions on Information Theory, etc., and more than 40 papers in famous international conferences, including IEEE Globecom, IEEE WCNC, ACM MobiCom, ACM MobiHoc, ICDCS, etc.

He involved in various sensor-related or network-related projects, including sensor-enhanced positioning systems, network coding for wireless networks, intelligent transportation systems, and intelligent sports learning. Recently, his researches focus on developing core technology for deep learning applications such as video context analysis, smart store technology, sports e-coaching systems, and microscopic traffic flow data collection.

**講題：**

**AI CUP: 羽球賽事拍拍標記自動化**

**摘要：**

近年因深度學習技術的進步，將電腦影像處理使用在運動轉播的加值或微觀情蒐已是熱門的應用方向。在【CoachAI：「金」準羽球】計畫中，我們以轉播影片為情蒐資料來源，應用電腦影像處理、機器學習與深度學習等技術，期望開發自動化且低成本的戰情收集與戰術分析系統。我們定義了羽球比賽拍拍標記情蒐的內容，並據以開發電腦輔助快速的人工標記程式，實現負擔得起的羽球情蒐體系，同時開發了CoachAI技戰術網站以呈現相關的研究成果。下個階段我們想擴研究成果，推廣相關的資料應用，透過教育部的AI CUP競賽結合社群能量，將電腦輔助人工標記進化成電腦視覺自動化標記，讓羽球情蒐成為大眾化的科技。