邱維辰教授榮獲 中研院年輕學者研究成果獎

中央研究院為鼓勵國內年輕學者深入學術研 究,追求重要貢獻,「年輕學者研究成果獎」聚 焦得獎人研究成果之影響力與創新程度,激發年 輕研究人員更加深入思考,從事創新性與具有影 響力的研究工作。

邱維辰教授研究含蓋電腦視覺、影像處理、 機器學習領域。邱教授專注利用非監督或無監督 式學習來增進模型在不同任務或領域的泛化能 力,特別是在電腦視覺應用上。他的研究涵蓋了 提升跨領域的適應性(例如從虛擬環境轉移知識 到現實環境的語意切割任務)、提升跨任務的泛 用性(例如跨越深度估測和光流估測兩種不同的 視覺感測任務)、和針對跨任務演算法(如元學 習)之深入分析和進一步提升成效。

邱維辰教授先後也獲得其他重要獎項肯定, 包括 2022 年榮獲傑出人才發展基金會年輕學者 創新獎與中華民國資訊學會李國鼎青年研究獎的 肯定。他是本院具研究潛力之新世代年輕學者, 文/林珮雯

目前也以合聘研究員身分加入工研院機械所,協 助開發自駕車的視覺感測與辨識模組,以更直接 的形式貢獻所 長於臺灣產業的技術發展。邱教授 也表示很榮幸獲得這個重大獎項的肯定,並且能 以其母語於頒獎典禮發表得獎感言更為開心,以 下是邱維教授的得獎感言:

真的很歡喜能夠獲得中央研究院年輕學者研 究成果獎對我研究成果的肯定,但是這些成果不 是我一個人有辦法做到的,而是許多學生共同打 拼努力、許多單位不吝提供研究資源、很多國內 外學術界或是工業界的好朋友作伙合作討論、更 加還有很多研究界的先輩對我的照顧及牽成才有 辦法達成的,當然還有最重要的,是我的家庭對 我無條件的支持與包容,才有今日的我。

在人工智慧和深度學習發展非常快速的現 代,我希望自己能夠成為國外內學界及工業界的 橋樑,作伙團結出力為著台灣這塊土地繼續打拚 貢獻。

Professor Wei–Chen Chiu was awarded the Academia Sinica Early–Career Investigator Research Achievement Award

To encourage young scholars in Taiwan to delve into in-depth academic research and make significant contributions, Academia Sinica instituted the 'Academia Sinica Early-Career Investigator Research Achievement Award.' This award strongly emphasizes assessing the impact and innovation of recipients' research outcomes, aiming to inspire young researchers toward more profound and influential endeavors.

Professor Wei-Chen Chiu conducts research in computer vision, image processing, and machine learning. His specific emphasis lies in using unsupervised learning to amplify the generalization capabilities of models across various tasks or domains, with a particular focus on applications in computer vision. His research involves enhancing adaptability across different domains (for instance, the semantic segmentation tasks of transferring knowledge from a virtual environment to a real environment), elevating versatility across various visual sensing tasks (such as depth estimation and optical flow estimation), and conducting comprehensive analyses to enhance further the effectiveness of cross-task algorithms, such as meta-learning.

Professor Chiu has earned acclaim through various prestigious awards, including the 2022 Young Scholars Innovation Award by the Foundation for the Advancement of Outstanding Scholarship and the KT Li Young Researcher Award conferred by the Institute of Information & Computing Machinery. He demonstrates substantial research potential as a forward-looking young scholar within our college. Simultaneously, he holds a joint appointment as a research fellow at the Mechanical and Systems Research Laboratories of ITRI (Industrial Technology Research Institute), contributing directly to the technological advancement of Taiwan's industry by playing a vital role in the development of visual sensing and recognition modules for autonomous vehicles.

Professor Chiu expressed great honor upon receiving this significant award, and he is particularly pleased to deliver the acceptance speech in his native language at the award ceremony. Here is Professor Chiu's acceptance statement:

"I am truly delighted to receive the Academia Sinica Early-Career Investigator Research Achievement Award, which acknowledges my research contributions. It's important to note that these accomplishments were not attained in isolation; they are the product of collaborative endeavors. This involves dedicated students, various organizations providing research resources, and numerous friends from academic and industrial circles (both domestic and international) engaging in collaborative discussions. Additionally, the indispensable care and guidance of many senior researchers in my field have been instrumental. Most importantly, my family's unwavering support and understanding have played an essential role in my current achievements.

In the swiftly evolving landscape of artificial intelligence and deep learning, I aspire to serve as a liaison between the academic and industrial sectors, domestically and internationally. My goal is to unite these sectors, fostering collaboration to contribute collectively to the ongoing progress of our homeland, Taiwan."

