

讓我們走向全世界

國際交流活動重新熱絡，今年四月我擔任領隊帶領本院及其他學院一同出訪美國伊利諾大學香檳分校，我們拜會伊利諾大學 iSchool 及資訊系，商洽簽署多邊合作備忘錄。本院同時亦辦理首次海外教師招募活動，廣招各界菁英來台任教。這一連串國際交流在在展現本院擴展國際影響力的努力與雄心，相信掌握知識與人才是頂尖大學競爭力的核心。

本院向來以著重人才培育著稱，本期介紹系所推行課程改革現況。作為教育部智慧創新關鍵人才躍升計畫之人才培育示範系所，本院將不遺餘力投入、整合各項資源，培育智慧創新關鍵人才，協助國家資通訊領域打下厚實基礎，提升產業競爭力。

在豐沛的研發能量支持之下，本院研究團隊有許多開創性的研究成果。本期介紹彭文孝教授研究團隊首創增強式學習 AI 影像壓縮技術，在國際壓縮標準組織 JPEG AI 委員會舉辦提案徵求獲第二名佳績。莊仁輝教授與謝君偉教授的研究團隊以「5G 與智慧無人機建構之海岸巡防與環境永續調查系統」、袁賢銘教授研究團隊以「開放銀行區塊鏈個資安控平台」，皆在 2022 未來科技獎脫穎而出，也收錄在本期資訊人院刊中。

校友是我們最引以為傲的珍貴資產，於本屆

陽明交大十傑之中，便有兩位來自資訊學院。恭喜聯強國際副總裁杜書全學長，廣達電腦副總裁蔡文弘學長同獲本年度傑出校友殊榮。他們精彩多姿的經歷與故事，對母校多面向支持的力量，為在校的學弟妹們立下了最佳的榜樣與學習典範。

本院師生傑出獲獎表現亦是本期報導重點。國科會傑出研究獎是重要的學術成就指標，恭喜林靖茹教授榮獲 111 年度國科會傑出研究獎。另外，本院一向重視參與重要的國際競賽，在吳毅成教授帶領之下學生分別榮獲 2022 AWS DeepRacer 世界賽前三名！

本院有全國最具規模與研究能量之資訊科系，致力於培育具前瞻視野的資訊產業人才。為朝永續經營前進，本院也推出資心專案 / 出國交換獎學金、青年講座教授獎勵金、興建資訊二館等募款計畫，以延攬最優秀的老師，培養最國際化的學生，提供最高品質的研究與學習環境為目標。歡迎校友、家長、企業與各界朋友與我們一起完成這巨擘藍圖，有您的捐款贊助，是本院邁向卓越的關鍵力。

資訊學院院長

陳志威

2023.06

Let's Go Towards All the World

International exchange activities have regained their vibrancy. I led our college and other colleges at NYCU on a visit to the University of Illinois at Urbana-Champaign in the United States in April of this year. During our visit, we had fruitful discussions and formalized a Multilateral Memorandum of Understanding with the iSchool and the Department of Computer Science at the University of Illinois. At the same time, our college successfully hosted its first overseas faculty recruitment event, actively attracting accomplished individuals from diverse backgrounds to join us in Taiwan. These endeavors in international engagement exemplify our college's dedicated efforts and ambitions to enhance its global impact. We believe that the acquisition of knowledge and talent forms the cornerstone of a top-tier university's competitiveness.

Our college has established a strong reputation for prioritizing the development of talented individuals. In this edition, we provide an overview of the ongoing curriculum reforms implemented by our department. As a designated department for talent cultivation within the Ministry of Education's Smart Innovation Talent Promotion Program, our college is fully committed to investing in and integrating various resources to foster key talents for smart innovation, aiming to establish a robust technical foundation and enhance industrial competitiveness in the field of information and communications in Taiwan.

With our abundant research and development capabilities, the research teams at our college have achieved numerous groundbreaking outcomes. In this edition, we present the pioneering work of Professor Wen-Hsiao Peng's team, who developed an innovative technology called "AI-assisted Image Compression with Reinforcement Learning." Their proposal received the second-place award in the Call for Proposals organized by the JPEG AI Committee, an international compression standard organization. Additionally, Professor Jen-Hui Chuang and Professor Jun-Wei Hsieh's team project, titled "Investigation System Constructed by 5G and Intelligent Unmanned Aerial Vehicles (UAVs)," along with Professor Shyan-Ming Yuan's team project, titled "Blockchain-based Identity Management and Access Control (BIMAC) Framework for Open Banking Ecosystem," have received recognition at the 2022 Future Technology Awards. These exceptional projects are prominently featured in

the current edition of NYCU CCS Magazine.

Our alumni are a source of great pride and invaluable assets to us. Among this year's ten outstanding alumni of NYCU, two of them are from the College of Computer Science. Congratulations to David Tu, the Vice President of Synnex Group, and Alan Tsai, the Vice President of Quanta Computer, for receiving the prestigious Outstanding Alumni award this year. Through their extraordinary experiences and stories, as well as their extensive support for our alma mater, they have set the best examples and role models for our fellow students.

The remarkable accomplishments and awards of our faculty and students are also a highlight of this edition. We extend our congratulations to Professor Kate Ching-Ju Lin for being honored with the Outstanding Research Award of the National Science and Technology Council in 2022, which serves as a significant benchmark for academic excellence. In Addition, our college has consistently prioritized participation in prestigious international competitions. Under the guidance of Professor I-Chen Wu, our students have achieved impressive success, receiving 1st place, 2nd place, and 3rd place in the 2022 Championship Cup sponsored by the AWS DeepRacer League.

Our college houses the country's foremost and research-intensive computer science department, dedicated to nurturing visionary talents for the information industry. To promote sustainable growth, we have initiated various fundraising projects such as the "Information Heart" campaign (scholarships for international exchanges), incentives for renowned guest lecturers, and the construction of Computer Science Building II. Our goal is to attract excellent faculty, nurture globally-minded students, and provide an unparalleled environment for research and learning. We extend a warm invitation to our alumni, parents, and our friends from all sectors to join us in realizing this ambitious vision. Your generous contributions and sponsorship are vital for our college to strive for excellence.



Dean of the College of Computer Science

2023.06