台灣第一部真空營電腦在陽明交大
TAIWAN'S FIRST VACUUM TUBE COMPUTER WAS AT NATIONAL YANG MING CHIAO TUNG UNIVERSITY

超越資訊領域　邁向新時代典範

　　時間過得很快，三年院長任期於今年七月結束，很榮幸八月續任資訊學院院長一職。三年前甫上任時，一直在想如何讓陽明交大資訊學院被全世界看見，很開心在今年的「交大日」完成了第一個里程碑；現在，在工程三館前豎立的「資訊先鋒牛車雕塑」，不僅具有台灣「第一部真空管電腦」在陽明交大的歷史意義，代表著陽明交大在台灣科技歷史上舉足輕重的地位，更勉勵著所有學子，繼續創新與努力，為陽明交大創造出更多新的里程碑。

　　身為台灣歷史最悠久的資訊學院，因應全球資訊安全潮流，本院於 108 年成立的「資通安全碩士學位學程」，也於今年正式升格為「資訊安全研究所」，除了以培養產業界與政府單位跨領域的高階資訊安全人才為目標之外，更期待能創造世界等級的研究成果並投入產業界，成為如同台灣 IC 設計與半導體產業般，擁有單一公司高達千億元產值的亮眼成績！

　　本院七十位全領域師資與 2000 多位學生是本院最重要的資產，今年一整年也繳出許多優秀的成績單。資工系林靖茹教授榮獲 111 年度國科會傑出研究獎，她的研究在整合軟體定義網路和人工智慧技術方面具有開創性的意義。謝續平教授團隊榮獲 IEEE Computer 期刊「2022 年傑出專欄論文獎」，2022 年下載超過千次，為下載次數最多的文章之一。新進教授劉育綸教授也榮獲教育部 112 年玉山青年學者，是本院指日可待深具潛力的年輕學者。

　　本院學生們的表現也不遑多讓，在 DEF CON（世界駭客大賽）全球知名資安技術研討會的 DEF CON CTF（搶旗攻防賽）賽事上，資工系學生及系友組成的「台灣聯隊 TWN 48」，打敗了來自中國、日本、韓國、丹麥、義大利等國駭客高手，獲得全球第三名的佳績！資工系同學們今年申請國科會「大專生研究計畫」成果傑出，有高達 21 件研究計畫獲得獎助！

　　本院歷史悠久，畢業校友們開枝散葉，今年陽明交通大學「交大日」，特別隆重盛大舉辦系友回娘家活動，讓凝聚力超強的資工系友們重聚在一起。除了選出 9 位在跨領域科技、5G 應用、科技轉型以及永續經營等領域取得傑出成就的傑出系友外，也特別邀請聯強國際（股）公司集團副總裁暨發言人杜書全學長，與廣達電腦執行副總經理蔡文弘學長，代表傑出校友致詞，勉勵在學學弟妹將基礎知識學好，再跟隨時代脈動擴張所學，以及看重失敗的經驗價值。

　　此外，也有許多校友捐獻軟硬體，提供本院更優質的學習環境，包括訊舟科技捐助 EDIMAX x NCTU Design Space、79 級學長姐捐贈機房、計工 70 級陳尚仁學長提供遠端監控與自動管理設備，以及奧圖碼股份有限公司捐贈 86 吋互動式觸控螢幕一台與智慧教室軟體等。

　　資訊科學為一跨領域整合應用之學科，本院歷經長期發展，除了在研究教學與產學各界，培養出許多頂尖人才之外，更成為醫療、教育、金融等眾多領域創新的領頭羊，期待本院的學生在台灣創新改革的關鍵時刻，成為最具有影響力的推手，高教領域的新典範。

資訊學院院長
陳志成
2023.12

Transcending the Information Field Stride Towards a Paradigm of the New Era

Time flies, and my three-year tenure as the dean concludes this July. I am pleased to announce that I have continued my service as the dean of the College of Computer Science starting in August. Reflecting on my initial assumption of office three years ago, my focus was on how to raise the global profile of the College of Computer Science at National Yang-Ming Chiao Tung University (NYCU). I am thrilled that we reached a significant milestone on this year's "University Day." The "Computer Pioneer Ox Cart Statue" now standing in front of Engineering Building 3 not only commemorates the historical significance of the first vacuum tube computer in Taiwan at NYCU but also symbolizes the university's influential role in Taiwan's technological history. It serves as a source of inspiration for all students to persist in innovation and diligence, contributing to more significant milestones for National Yang Ming Chiao Tung University.

As the longest-standing school for computer science in Taiwan, our college has responded to global cybersecurity trends by officially elevating the "Graduate Degree Program of Cyber Security," established in 2019, to the "Institute of Computer and Communications Security" this year. In addition to cultivating highly skilled information security professionals with interdisciplinary expertise for both the industry and government agencies, our goal is to produce excellent research results and contribute them to the industry. We aspire to achieve outstanding results, comparable to Taiwan's IC design and semiconductor industry, that a single company can reach an impressive value in the billions of dollars!

The seventy faculty members spanning diverse fields and the over two thousand students constitute the most valuable assets of our college. Throughout this year, we have achieved numerous outstanding academic accomplishments. Professor Kate Ching-Ju Lin has been honored with the 2022 National Science and Technology Council Outstanding Research Award for her groundbreaking research, which integrates software-defined networking and artificial intelligence technologies. Professor Shiuhpyng Shieh's team was recognized with the "2022 Outstanding Column Paper Award" from the IEEE Computer Journal. In 2022, their paper achieved 1,000 or more downloads, placing it among the most frequently downloaded articles. Additionally, the recently appointed Professor Yu-Lun Liu has been named a 2023 Yushan Young Scholar by the Ministry of Education, highlighting him as a promising and highly potential young scholar within our college.

Our students have also demonstrated remarkable performance. In the DEF CON (World Hacker Conference) widely recognized cybersecurity technical seminar DEF CON CTF (Capture The Flag) competition, the "Taiwan Team TWN 48," consisting of students and alumni from the Department of Computer Science, surpassed hackers from China, Japan, South Korea, Denmark, Italy, and various other countries, securing an impressive third place on a global scale! Furthermore, this year, students excelled in the application for the NSTC undergraduate research project, with as many as 21 projects receiving grants and recognition for their outstanding contributions.

The esteemed history of our college spans generations, with our alumni flourishing in various fields. This year, as part of the "University Day" celebration at Yang Ming Chiao Tung University, we organized a special Homecoming Day, reuniting a highly cohesive group of CCS alumni. Alongside acknowledging nine outstanding alumni excelling in cross-disciplinary technology, 5G applications, technological transformation, and sustainable business, we were privileged to invite two distinguished alumni, Shu-Chyuan Tu, Vice President and Spokesperson of Synnex Technology International Corporation, and Wen-Hong Tsai, Executive Vice President of Quanta Computer Inc., to deliver speeches on behalf of our distinguished alumni. They urged current students to excel in their fundamental knowledge, stay abreast of contemporary trends, broaden their educational horizons, and appreciate the value of experiences, even gained through failure.

Moreover, numerous alumni have enriched our learning environment by contributing both hardware and software to our college. These generous donations include the EDIMAX x NCTU Design Space, sponsored by Edimax Technology Co., an Internet Data Center gifted by alumni from the Class of '79, remote monitoring and automatic management equipment provided by Shang-Ren Chen from the Class of '70, and a substantial contribution from Optoma Corporation. Optoma Corporation gifted a smart classroom solution featuring an 86-inch interactive touchscreen.

The field of Computer Science is characterized by its interdisciplinary and integrative nature. Throughout the substantial evolution of our college, we have not only fostered numerous outstanding individuals through research, teaching, and partnerships with diverse industries, but have also taken the lead in innovation across various sectors such as healthcare, education, and finance. We anticipate that our college's students, particularly during crucial junctures of innovation and reform in Taiwan, will emerge as the most influential advocates, contributing to the establishment of a new paradigm in higher education.

Dean of the College of Computer Science
2023.12