

嘉大資工 智慧網通 科技中堅 跨界先鋒

前瞻網通 智慧運算

✚ 執行教育部或其他公部門計劃、產學合作計畫

◇ 112 年-114 年度國科會計畫

年度		計畫名稱	執行起迄
1	114	結合屬性及同態加密於支援區塊鏈聯邦學習架構之隱私保護與後門檢測聯合解決方案	2025/08/01~2027/07/31
2	114	應用於高中職教育具前緣計算 AI 可靈巧抓物即時互動三爪機器手臂之設計與實現	2025/06/01~2026/05/31
3	114	發展語音與影像生成式 AI 技術實現於喧囂籃球賽之智慧教練戰術板	2025/08/01~2027/07/31
4	114	結合機器學習理論於生成式圖像技術之研究	2025/08/01~2027/07/31
5	114	以自然語言為核心之跨模態對齊技術於醫療報告生成與互動問答系統	2025/08/01~2026/07/31
6	114	基於量子安全區塊鏈打造智慧電網能源交易的抗量子攻擊與去中心化密碼學技術	2025/08/01~2026/07/31
7	113	驅動軟體品質持續改善循環之架構	2024/08/01~2026/07/31
8	113	整合生成式 AI、影像編碼、景深估測與縫合網路用於自駕虛擬測試之 360 度環景景深圖生成系統	2024/08/01~2025/09/15
9	113	人體姿態估測模型的開發與應用	2024/08/01~2025/07/31
10	112	在雲端環境中著重公平性與交易記錄保存之強化隱私交易系統及其智慧型異常分析模型之建置	2023/08/01~2024/10/31
11	112	利用室內真實環境光照資訊強化混合實境中材質感知進行虛實物件	2023/08/01~2024/07/31
12	112	可信任的去中心化智慧電網能源交易機制	2023/08/01~2024/10/31
13	112	開發具方向性物件之 SSD 偵測模型	2023/08/01~2024/07/31

進行人工智慧開發

編號	年度	計畫名稱	執行期限
1	114	農業部：執行農業部農業試驗所嘉義農業試驗分所委辦之“建置柑橘葉部病蟲害智慧影像辨識技術”合作計畫	114/1/1~114/12/31
2	114	教育部：智慧雨林產業創生人才育成計畫	114/9/1~115/1/31
3	113	產學合作：參與榮靜計畫，與台中榮民總醫院共同執行“開發以 MoveNet 協助 KIM 身體姿勢判斷之手機 APP”產學合作計畫。	113/1/1~113/12/31
4	112	產學合作：參與榮靜計畫，與台中榮民總醫院共同執行“開發基於手機 APP 之職業性肌肉骨骼傷害檢測系統”產學合作計畫。	112/1/1~112/12/31

資訊科技 中堅人才

執行資訊相關大專生計畫

✧ 114 年度國科會大專生研究計畫

<https://website.ncyu.edu.tw/csie/Subject/Detail/224971?nodeId=9689>



進行資訊、通訊專題製作

◇ 歷屆專題清單：<https://website.ncyu.edu.tw/csie/Contents?nodeId=32409>

◇ 歷屆專題得獎：<https://website.ncyu.edu.tw/csie/Contents?nodeId=32410>

培育師培、科技領域師培生

[中等學校科技領域資訊科技專長招生](#)

跨域整合 跨境學習

跨領域整合專案製作或碩士論文撰寫

◇ 大專生專題跨領域製作

<https://www.ncyu.edu.tw/csie/Contents?nodeId=32409>

年度	專題名稱
112	植物生長箱-人工智慧應用於提升植物生長效率
112	植物生長箱-遠端監控 APP
111	愛文芒果品質影像辨識
111	芒果品種辨識
111	水稻空拍影像植株位置自動標註
111	深度學習追蹤雞隻路徑加以研究
110	蝴蝶蘭品種辨識系統
110	雞隻體重估測及路徑追蹤
110	智慧蜂箱
110	魚苗計數
110	蜜蜂分箱時機偵測系統

與美國堪薩斯州立大學簽訂並進行雙聯學制

◇ 碩士雙聯：<https://website.ncyu.edu.tw/csie/Contents?nodeId=62484>

師生參與國際會議

◇ 大專生、碩博士參與國際會議

學期	教師	學生	論文名稱	會議名稱
110-1	葉瑞峰	林桂梅	Intelligent Mango Fruit Glade Classification Using AlexNet with GrabCut Algorithm	2021 IEEE International Conference on Consumer Electronics-Taiwan (ICCE-TW)
110-1	葉瑞峰	王淞逸	Statistical Language Models for Spelling Error Detection with Web Search New Word Acquisition	2021 IEEE International Conference on Consumer Electronics-Taiwan (ICCE-TW)
110-1	章定遠	張乾益、盧一銘、江重慶	Monocular Depth-Estimation Dense Residual Networks with High Modularization and Progressive Pruning	12th Three Dimensional Systems and Applications (3DSA) (IEEE conference paper)
110-1	林楚迪	Jutarporn Intasara	A Learning-to-Rank Based Approach for Improving Regression Test Case Prioritization	28th Asia-Pacific Software Engineering Conference
110-1	章定遠	張乾益、吳沛鴻、江重慶	Multi-Resolution Dense Residual Networks with High-Modularization for Monocular Depth Estimation	The 4th International Conference on Intelligent Computing and Optimization (ICO'2021)
111-1	李龍盛	紀宏宜、謝鎧仲	The Light Load Multicast Protocol in the NEMO Network.	4th IEEE Eurasia Conference on IoT, Communication and Engineering 2022
111-2	葉瑞峰	袁立擎	Automatic Labeling of Rice Seedlings in Unmanned Aerial Vehicles Images	5th IEEE Eurasia Conference on Biomedical Engineering, Healthcare and Sustainability 2023
111-2	王智弘	蕭維均	Detection of SQL Injection and Cross-Site Scripting Based on Multi-Model CNN Combined with Bidirectional GRU and Multi-head Self-Attention.	2023 5th International Conference of Computer Communication and the Internet (ICCCI)
112-2	邱志義	Ching-Lin Wang, Tuan-Qi Yang	Utilizing artificial intelligence for discrimination of pollen in Taiwan forests: a preliminary case study of dimocarpus longan and litchi chinensis	The IUFRO World Congress

112-1	林楚迪	施旭航、羅浩軒、郭嘉鈴	Empirically Evaluating the Combinations of Fault Localization Techniques Based on Different Learning-to-Rank Algorithms	2023 8th International Conference on Cloud Computing and Internet of Things (CCIoT)
112-1	林楚迪	Jutarporn Intasara, Hsu-Hang Shih, Hao-Xuan Luo, Chia-Ling Kuo	Combining Fault Localization Techniques Based on Learning-to-Rank Algorithms	5th International Conference on Emerging Networks Technologies (ICENT 2023)
112-1	章定遠	周奕、林柏任、張乾益	Integrated Light-Resnet And Poolformer Networks For Shape-Preserving Lane Detection	International Conference on Innovation, Communication and Engineering 2023 (ICICE 2023)
112-1	王智弘	李柏毅、蕭維均	Implementation and Analysis on Efficient Proxy-based Multicast Secure Data Sharing Mechanism with CP-ABE Supporting Outsourcing Decryption in IoT Environment	2023 The 11th International Conference on Information Technology: IoT and Smart City (ICIT 2023)
112-2	林楚迪		Automatically Location the Faults in Students' Code Projects Based on Reinforcement Learning	The 2024 15th International Conference on E-Education, E-Business, E-Management and E-Learning (IC4E 2024)
112-2	葉瑞峰	Shu-Po Hsu, Kai-Siang You	Using HMM for Aberrant Behavior Detection by Three-dimensional Stereo Video	2024 6th IEEE Eurasia Conference on Biomedical Engineering, Healthcare and Sustainability
113-1	章定遠	徐有加、周奕	Torso-Clothes 3D-fitting Virtual Try-on Network in Comprehensive Backgrounds	7th International Conference on Knowledge Innovation and Invention 2024 (ICKII 2024)
113-2	王智弘	黎臻	A Lightweight Blockchain-Based Fair Trading Framework Combined with Lazy Dispute	2025 the 10th International Conference on Big Data Analytics (ICBDA)

			Accountability for Cloud Big Data Storage	
113-2	王智弘	Wei-Sheng Kao, Yi-Fan Li	Towards Both Robust and Concealed Backdoor Attack with Optimizing Trigger in Federated Learning	2025 9th International Conference on Intelligent Systems, Metaheuristics & Swarm Intelligence (ISMSI 2025)