Yen-Wei Chu, Distinguished Professor - Director

Education

- Ph.D. in Institute of Information Engineering, NYCU (1998/09 – 2006/07)
- Master of Science in Institute of Information Science, NYCU (1996/09 – 1998/07)
- Bachelor of Science in Department of Information Science, NYCU (1992 – 1996/07)

In-Service

On-Campus

- Distinguished Professor and Director, Institute of Genomics and Bioinformatics, NCHU (since 2022/08)
- Member, Committee for Establishing Agricultural Big Data Sharing Service Platform, NCHU (since 2021)
- oint Professor, Institute of Molecular Biology, NCHU (since 2008/08)
- Joint Professor, Biotechnology Development Center, NCHU (since 2008/08)

Off-Campus

- Project Consultant and Review Committee Member, Ministry of Health and Welfare, Executive Yuan (since 2006)
- Discipline Planning, Initial, and Review Committee Member, National Science Council (since 2017)
- Industry Artificial Intelligence Consultant, Taiwan International Institute for Industrial-Academic Collaboration (since 2022)
- Evaluation Committee Member for Grade Certification of Military Product Vendors (since 2021)
- Academic Working Committee Member, Taiwan Society for Medical Decision Making Science (since 2024)
- ICMHI(International Conference on Medical and Health Informatics) Committee (since 2018)

Experience

Professor and Director, Institute of Genomics and Bioinformatics, NCHU (2019/8 - 2022/07)

Associate Professor and Head, Computer and Information Networking Center, NCHU (2013/08 - 2015/07)
Associate Professor, Institute of Genomics and Bioinformatics, NCHU (2012/08 - 2019/07)
Assistant Professor, Institute of Genomics and Bioinformatics, NCHU (2008/08 - 2012/07)
Adjunct Professor, Institute of Biotechnology, NCHU (2008/08 - 2016/07)
Assistant Professor, Department of Bioinformatics, Asia University (2006/08 - 2008/07)
Lecturer, Department of Information Management, Yuanpei University of Science and Technology (2005/08 - 2006/07)
Lecturer, Department of Information Management, China University of Technology (2003/08 - 2005/07)
Consultant, Taipei Corporation, Information Department (1998/03 - 2000/03)
Lecturer, Electronic School, Taiwan Association for Electronic Education (1997/03 - 1999/06)

Academic Honors (Recent three-year)

2024 年 國際會議 2nd International Symposium on Medical Decision Science 榮獲「最佳論文獎」
2023 年 興創競技場創新創業競賽「金獎」
2023 年 台灣創新技術博覽會發明競賽「銀獎」
2023 年 國際會議 The 7th International Conference on Medical and Health Informatics 榮獲「最佳論文獎」
2022 年 「水資料應用競賽」以「使用人工智慧演算法開發全方位水庫智慧管理級預警平台」榮獲「佳作」
2022 年 榮獲中興大學 111 學年度特聘教授

Major Research Themes

Bioinformatics Algorithms, Precision Medicine, Smart Agriculture, Big Data Analysis, Artificial Intelligence

Patent

1) 稻熱病預警系統及方法(發明型台灣專利) 2024.02.01 - 2041.07.29
2) 預測水稻用水需求的系統及方法(發明型台灣專利) 2023.11.11 - 2041.08.03
3) 醬油鑑定系統(創新型台灣專利) 2023.09.11 - 2033.05.21

4) 泌乳牛產能效益的預測系統及方法(發明型台灣專利) 2023.02.11 - 2041.07.04
5) 水稻蟲害健康預警系統及方法(發明型台灣專利) 2022.05.21 - 2041.07.29
6) 蜂蜜鑑定方法以及蜂蜜鑑定系統(發明型台灣專利) 2022.04.11 - 2041.08.19
7) 區別不同批次茶葉的方法及其鑑定系統(發明型台灣專利) 2019.06.11 - 2037.05.07

Journal (Recent five-year)

Published 24 papers in important international journals in the field of artificial intelligence applications, with 16 as corresponding author and 3 as first author. Additionally, received the Best Paper Award twice at international conferences within five years. Among them, 11 papers have high citation rates, with the highest citation count reaching approximately 245 times, demonstrating the significance of the research topics. Over the past five years, participated in 36 completed projects and is currently involved in 7 ongoing projects.

Books

1) *朱彥煒等* (2024) 氣候變遷挑戰下的永續農業：提升糧食品質與產量的有效策略/科學月刊
2) *朱彥煒等* (2023) 人工智慧科技於農業應用實務/中興大學精準農業領域教學推動中心
3) *Chu Y.W.* (2006) Finding Protein Secondary Structure Regularity and Related Applications: National Chiao Tung University, Hsinchu, Taiwan. (Dissertation)
4) *Chu Y.W.* (1998) Studies on Hysteresis: Human Perception and Time Series Prediction: National Chiao Tung University, Hsinchu, Taiwan. (Master Thesis)

Attachment

➢ Journal (Recent five-year)

1. **Yen-Wei Chu*** and Chang Chi-Chang (2023, Nov). Using Physical & Genomics Markers for Smart Therapy via Expert Systems With Computer Learning, *Frontiers in Genetics*, 14: 1336399. (SCI: 3.7, 引用次數: 0, 60/171).

2. Shih-Huan Lin, Ching-Hsuan Chien, Kai-Po Chang, Min-Fang Lu, Yu-Ting Chen, **Yen-Wei Chu*** (2023, May). SaBrcada: Survival Intervals Prediction for Breast Cancer Patients by Dimension Raising and Age Stratification, *Cancers*. 15, 3690. (SCI: 5.2, 引用次數: 0, 72/241).

3. Jie-Hao O, Chang-Hsin Ku, Yea-Fang Wu, Guo-Cih Lin, Miin-Huey Lee, RongKuen Chen, Hau-Ping Chou, Hsin-Yuh Wu, Sheng-Chi Chu, Qiao-Juan Lai, YiChen Tsai, Chun-Chi Lin, Chien-Chih Kuo, Chung-Ta Liao, Yi-Nian Chen, **Yen-Wei Chu**, Chi-Yu Chen (2023, Mar). Application-oriented deep learning model for early warning of rice blast in Taiwan, *Ecological Informatics*. 73, 101950. (SCI: 5.1, 引用次數: 1, 27/171).

4. Shu-Yuan Lin, Hui-Rong Su, Chen-Cheng Lo, Shang-Min Yeh, Chi-Hung Lee, Richard Wu, Fen-Chi Lin, **Yen-Wei Chu***, Shuan-Yu Huang* (2022, Mar). Effects of Extended Viewing Distance on Accommodative Response and Pupil Size of Myopic Adults by Using a Double-Mirror System, *Int. J. Environ. Res. Public Health*, 19(5), 2942. (SCI: 4.614, 引用次數: 3, 45/182).

5. Ying-Hsuan Chen, Shun-Lung Chao and **Yen-Wei Chu*** (2022, Feb). Effects of Perceived Benefit on Vitamin D Supplementation Intention: A Theory of Planned Behaviour Perspective, *Int. J. Environ. Res. Public Health*, 19(4), 1952. (SCI: 4.614, 引用次數: 7, 45/182).

6. Ching-Hsuan Chien, Lan-Ying Huang, Shuen-Fang Lo, Liang-Jwu Chen, Chi-Chou Liao, Jia-Jyun Chen and **Yen-Wei Chu*** (2021, Dec). Using Machine Learning Approaches to Predict Target Gene Expression in Rice T-DNA Insertional Mutants, *Frontiers in Genetics*, Volume 12, 798107-798107. (SCI: 3.7, 引用次數: 2, 60/171).

7. Chi-Hua Tung, Yi-Sheng Chang, Kai-Po Chang and **Yen-Wei Chu*** (2021, Aug). NIgPred: Class-Specific Antibody Prediction for Linear B-Cell Epitopes Based on Heterogeneous Features and Machine-Learning Approaches, *Viruses*, 13(8), 1531. (SCI: 4.7, 引用次數: 5, 15/36).

8. Kai-Po Chang, Shih-Huan Lin, **Yen-Wei Chu*** (2021, Apr). Artificial intelligence in gastrointestinal radiology: A review with special focus on recent development of magnetic resonance and computed tomography, *Artificial Intelligence in Gastroenterology*, 2(2), 27-41. MOST 109-2321-B-005-024. (EI, 引用次數: 1).

9. Chi-Wei Chen, Lan-Ying Huang, Chia-Feng Liao, Kai-Po Chang* and **Yen-Wei Chu*** (2020, Oct). GasPhos: Protein Phosphorylation Site Prediction Using a New Feature Selection Approach with a GA-Aided Ant Colony System, *International Journal of Molecular Sciences*, 21(21), 7891. (SCI: 5.6, 引用次數: 10, 66/285).

10. Ching-Hsuan Chien, Chi-Chang Chang, Shih-Huan Lin, Chi-Wei Chen, Zong-Han Chang and **Yen-Wei Chu*** (2020, Sep). N-GlycoGo: Predicting Protein N-glycosylation Sites on Imbalanced Data Sets by Using Heterogeneous and Comprehensive Strategy, *IEEE Access*, 8, 165944-165950. (SCI: 3.9, 引用次數:15, 100/275).

11. **Yen-Wei Chu**, Ching-Hsuan Chien, Mei-I Sung, Chi-Wei Chen, and Yu-Ting Chen (2020, Jun). dBMHCC: a comprehensive Hepatocellular carcinoma (HCC) biomarker database provides a reliable prediction system for novel HCC phosphorylated biomarkers, *PLoS ONE*, 15(6), e0234084. (SCI: 3.7, 引用次數: 10, 26/73).

12. Kai-Po Chang, John Wang, Chi-Chang Chang and **Yen-Wei Chu*** (2020, May). Development of a Novel Tool for the Retrieval and Analysis of Hormone Receptor Expression Characteristics in Metastatic Breast Cancer via Data Mining on Pathology Reports, *BioMed Research International*, 2020(7), 2654815. (SCI: 3.246, 引用次數: 1, 90/159).

13. Chi-Hua Tung, Ching-Hsuan Chien, Chi-Wei Chen, Lan-Ying Huang, Yu-Nan Liu and **Yen-Wei Chu*** (2020, Apr). QUATgo: Protein quaternary structural attributes predicted by two-stage machine learning approaches with heterogeneous feature encoding, *PLoS ONE*, 15(4), e0232087. (SCI: 3.7, 引用次數: 2, 29/134).

14. Chi-Wei Chen, Meng-Han Lin, Chi-Chou Liao, Hsung-Pin Chang, **Yen-Wei Chu*** (2020, Mar). iStable 2.0: Predicting protein thermal stability changes by integrating various characteristic modules, *Computational and Structural Biotechnology Journal*, 18(2020), 622-630. (SCI: 6.0, 引用次數: 77, 60/285).

15. Jehn-Hwa Kuo, Chi-Chang Chang, Chi-Wei Chen, Heng-Hao Liang, Chih-Yen Chang, **Yen-Wei Chu*** (2020, Mar). Sequence-Based Structural B-cell Epitope Prediction by Using Two Layer SVM Model and Association Rule Features, *Current Bioinformatics*, 15(3), 246-252. (SCI: 4.0, 引用次數: 7, 12/55).

16. **Yen-Wei Chu**, Kai-Po Chang, Chi-Wei Chen, Yu-Tai Liang, Zhi Thong Soh and Li-Ching Hsieh* (2020, Jan). miRgo: integrating various off-the-shelf tools for identification of microRNA–target interactions by heterogeneous features and a novel evaluation indicator, *Scientific Reports*, 10(1), 1466. (SCI: 4.6, 引用次數: 15, 22/73).

17. Jone-Han Liu, Chi-Chang Chang, Chi-Wei Chen, Li-Ting Wong and **Yen-Wei Chu*** (2019, Sep). Conservation region finding for influenza A viruses by machine learning methods of N-linked glycosylation sites and B-cell epitopes, *Mathematical Biosciences*, 315, 108217. (SCI: 4.3, 引用次數: 9, 10/55).

18. Chi-Chou Liao, Liang-Jwu Chen, Shuen-Fang Lo, Chi-Wei Chen and **Yen-Wei Chu*** (2019, May). EAT-Rice: A predictive model for flanking gene expression of T-DNA insertion activation-tagged rice mutants by machine learning approaches, *PLoS Computational Biology*, 15(5), e1006942. (SCI: 4.3, 引用次數: 8, 10/55).

19. Kai-Po Chang, **Yen-Wei Chu***, John Wang (2019, Feb). Analysis of Hormone Receptor Status in Primary and Recurrent Breast Cancer Via Data Mining Pathology Reports, *Open Medicine*, 14(1), 91-98. (SCI: 2.1, 引用次數: 9, 110/169).

20. Yu-Ting Chen, Chi-Chang Chang, Chi-Wei Chen, Kuan-Chun Chen, **Yen-Wei Chu*** (2019, Jan). MADS-Box Gene Classification in Angiosperms by Clustering and Machine Learning Approaches, *Frontiers in Genetics*, 9, 707. (SCI: 3.7, 引用次數:6, 60/171).

21. Chi-Wei Chen, Kai-Po Chang, Cheng-Wei Ho, Hsung-Pin Chang, **Yen-Wei Chu*** (2018, Dec). KStable: A Computational Method for Predicting Protein Thermal Stability Changes by K-star With Regular-mRMR Feature Selection, *Entropy*, 20(12), 988. (SCI: 2.7, 引用次數: 9, 39/111).

22. Chi-Chang Chang, Chi-Hua Tung, Chi-Wei Chen, Chin-Hau Tu and **Yen-Wei Chu*** (2018, Oct). SUMOgo: Prediction of sumoylation sites on lysines by motif screening models and the effects of various post-translational modifications, *Scientific Reports*, 8(1), 15512. (SCI: 4.6, 引用次數: 40, 22/73).

23. Chi-Wei Chen, Hui-Chih Hung, Shao-yu Ho, Hsung-Pin Chang and **Yen-Wei Chu*** (2018, Jun). Constructing Feature Models for Citrullination Sites Prediction, *Journal of Quality*, 25(3), 185-195. (EI).

24. Quan Zou, Chi-Wei Chen, Hao-Chen Chang, **Yen-Wei Chu*** (2018, Jun). Identifying Cleavage Sites of Gelatinases A and B by Integrating Feature Computing Models, *Journal of Universal Computer Science*, 24(6), 711-724. (SCI: 1.0, 引用次數: 2, 109/145).

25. Chi-Chou Huang, Chi-Chang Chang, Chi-Wei Chen, Shao-yu Ho, Hsung-Pin Chang, **Yen-Wei Chu*** (2018, Feb). PClass: Protein Quaternary Structure Classification by Using Bootstrapping Strategy as Model Selection, *Genes*, 9(2), 91. (SCI: 3.5, 引用次數: 4, 66/171).

➢ Conferences (Recent three-year)

1. Ching-Hsuan Chien, Li-Yun Tsai and **Yen-Wei Chu*** (2024, Feb) Protein Sequence-Based Classification for Five Types of Dementia, 2nd International Symposium on Medical Decision Science, Chiang Mai, Thailand. **(Best Paper Award)**
2. Sih-Han Chen, Gui-Chou Liang, Lan-Ying Huang, Shih-Huan Lin, Shu-Mei Dai and **Yen-Wei Chu*** (2023, Nov). An early warning of insect infestation by artificial intelligence, Proceedings of 17th International Symposium on Biocatalysis and Agricultural Biotechnology, pp. 111. Taiwan.
3. Chi-Wei Chen and **Yen-Wei Chu*** (2023, Nov). Applications of artificial intelligence in rice cultivation and tea origin identification, Proceedings of 17th International Symposium on Biocatalysis and Agricultural Biotechnology, pp. 56. Taiwan.
4. Chi-Wei Chen and **Yen-Wei Chu*** (2023, Jun). Exploring the Substrate Specificity of SUMO-1 and SUMO-2 using Convolutional Neural Networks, 13th International Conference on Biomedical Engineering and Technology, Japan.
5. Tian-Fu Lee, **Yen-Wei Chu**, Wei-Jie Huang, Chun-Wei Hsu and Zhi-Yang Chen (2023, May). Security Enhancement of Authentication Scheme for Smart Healthcare Services, 2023 7th International Conference on Medical and Health Informatics, pp. 129–135. Japan.
6. Lan-Ying Huang, Chi-Wei Chen, Kai-Po Chang, **Yen-Wei Chu*** (2023, May). Comparing the prediction performance of machine leaning and deep learning methods for 3c-like protease cleavage sites, 2023 7th International Conference on Medical and Health Informatics, pp. 34-38. Japan. **(Best Paper Award)**
7. Tsung Han Chou, Su Hua Huang and **Yen-Wei Chu*** (2023, May). Reducing the Time to Identify Drug Resistant Bacteria Caused by Bloodstream Infections Through Machine Learning and UV-Vis Spectroscopy, 2023 6th International Conference on Healthcare Service Management, Japan.
8. Chi-Wei Chen, Meng-Han Lin, Haung-Pin Chang and **Yen-Wei Chu*** (2020, Jan). Improvement of Protein Stability Prediction by Integrated Computational Approach.

2020 10th International Conference on Bioscience, Biochemistry and Bioinformatics, pp. 8-13. Japan.

9. Shih-Huan Lin, Liang-Yu Hsia, Chen-Hua Liu and **Yen-Wei Chu*** (2019, Jul). Using Artificial Intelligence Approaches for Predicting The Risk of Hepatic Decompensation Induced by Prod. ANIMH 2nd International Conference on Modern Trends in Engineering, Applied Sciences, IT and Communication Technologies, Hong Kong.
10. Yu-Tai Laing, Chun-Chieh Chen, Shuen-Fang Lo, Tuan-Hua David Ho, Su-May Yu and **Yen-Wei Chu*** (2019, Jul). Using Artificial Intelligence Approaches for Developing Wisdom Irrigation System for Crops, ANIMH 2nd International Conference on Modern Trends in Engineering, Applied Sciences, IT and Communication Technologies, Hong Kong.
11. Chi-Wei Chen, Chin-Hau Tu and **Yen-Wei Chu*** (2018, May). SUMOylation Sites Prediction by Machine Learning Approaches, IEEE International Conference on Consumer Electronics-Taiwan. **(Oral**, **full paper).**
12. Kai-Po Chang, Chi-Chang Chang, **Yen-Wei Chu*** and John Wang (2018, Jan). BreastExtractor: A Word/Phrase Matching-Based Text Mining Program for Automatic Extraction of Hormone Receptor Data from Free-text Pathology Reports on Breast Cancer, the second International Conference on Medical and Health Informatics, Japan. **(Oral**, **Best Paper Award).**

➢ Research Project (Recent five-year)

Project title	Position	Duration	Funding agency	Execution status	Funding
◆ **In application**					
剖析「憂鬱」在情感性疾患的角色--腦認知功能與病程變化之趨勢預測--探究腦功能與憂鬱在情緒疾患之關聯	共同主持人	2024/08/01~ 2027/07/31	國科會	審核中	審核中
探索尿液生物標誌及分子特徵以智慧輔助膀胱癌診斷	計畫主持人	2024/08/01~ 2027/07/31	國科會	審核中	審核中
利用有語境詞嵌入功能的大型語言模型以遷移式學習開	共同主持人	2024/08/01~ 2027/07/31	國科會	審核中	審核中

Project title	Position	Duration	Funding agency	Execution status	Funding
發全自動癌症登記資料擷取系統					
◆ **Ongoing research project**					
113 年度「精準健康產業跨領域人才培育計畫」	協同主持人	2023/02/01~ 2024/01/31	教育部	執行中	2,100,000
113 年農業部智慧農業成果擴散計畫-米屋智農聯盟低碳永續生態系	主持人	2024/01/01 ~ 2024/12/31	米屋智農股份有限公司	執行中	900,000
智慧永續新農業研究發展中心(II)(1/2)	共同主持人	2023/11/01~ 2024/10/31	國科會	執行中	52,290,000
韌性腦於跨越成人生命歷程的追蹤剖析與強化－韌性腦於跨越成人生命歷程的追蹤剖析與強化(1/2)	共同主持人	2023/05/01~ 2024/04/30	國科會	執行中	12,200,000
解碼精神疾患之老化歷程:從人工智慧來探討時光的流逝與個體心智健康之相關－護心智之神經可塑性與延緩精神疾病老化之相關探討	共同主持人	2022/08/01~ 2025/07/31	國科會	執行中	12,285,000
利用人工智慧在 RNAseq 和 TNM 上尋找乳腺癌生存和用藥的影響因子及其應用	計畫主持人	2022/08/01~ 2025/07/31	國科會	執行中	1,920,000
利用深度學習開發冠狀病毒蛋白質水解酶切位預測系統	計畫主持人	2021/08/01~ 2024/07/31	國科會	執行中	2,172,000
112 年度「精準健康產業跨領域人才培育計畫」	協同主持人	2023/02/01~ 2024/01/31	教育部	已結案	2,100,000
智慧農業前瞻預警平台	計畫主持人	2023/01/01~ 2023/12/31	國科會	已結案	5,900,000

Project title	Position	Duration	Funding agency	Execution status	Funding
智慧永續新農業研究發展中心(2/2)	共同主持人	2022/11/01~2023/10/31	國科會	已結案	49,800,000
黃斑病變以含葉黃素保健食品保護視力之效果	計畫主持人	2022/08/01~2023/07/31	普登生技有限公司	已結案	300,000
擴增實境結合心理介入於更換內植式輸液導管角針癌童之效應探討	計畫主持人	2022/07/01~2023/06/30	中興大學與臺中榮民總醫院合作研究	已結案	300,000
111 年度「精準健康產業跨領域人才培育計畫」	協同主持人	2022/02/01~2023/01/31	教育部	已結案	2,050,000
智慧永續新農業研究發展中心(1/2)	共同主持人	2021/11/01~2022/10/31	國科會	已結案	52,060,000
建構智慧茶葉栽培生產模式-影響茶葉品質因子資料分析	計畫主持人	2021/08/17~2021/12/15	農委會	已結案	98,000
使用深度學習開發神經膠細胞瘤智慧診斷輔助系統(包含病理分類與分子機轉預測)	共同主持人	2021/08/01~2022/07/31	國科會	已結案	1,080,000
酪農牧場智慧管理系統實證與應用－酪農牧場智慧管理系統實證與應用	共同主持人	2021/07/01~2022/06/30	國科會	已結案	7,500,000
異質感測器人工智慧整合平台協助作物之健康預警-作物智慧型健康預警系統之建立(4/4)	計畫主持人	2021/07/01~2022/06/30	國科會	已結案	7,500,000
透過深度學習方法利用肺癌基因表現量數據來預測病患的預後	主持人	2021/01/01~2022/12/31	中興大學與彰化基督教醫院合作研究	已結案	240,000

Project title	Position	Duration	Funding agency	Execution status	Funding
基於深度學習的神經膠細胞瘤病理自動分類系統	共同主持人	2020/08/01~2021/07/31	國科會	已結案	1,050,000
異質感測器人工智慧整合平台協助作物之健康預警-作物智慧型健康預警系統之建立(3/3)	計畫主持人	2020/07/01~2021/09/30	國科會	已結案	9,500,000
酪農牧場智慧管理系統建置整合與應用(3/3)	協同主持人	2020/07/01~2021/06/30	國科會	已結案	9,000,000
茶園土壤健康管理智慧系統開發-問題土壤專家診斷系統開發(3/3)	協同主持人	2020/07/01~2021/06/30	國科會	已結案	6,000,000
利用深度學習進行腦瘤病理切片之自動分級	主持人	2020/01/01~2020/12/31	中興大學與中山醫學大學合作研究	已結案	320,000
狗鼻紋理以及狗步態與環境互動辨識(3/3)	共同主持人	2020/01/01~2020/12/31	農委會	已結案	1,702,000
腫瘤蛋白 ENOX2(tNOX)蛋白降解調控機制與病人化學治療反應性之相關性探討	主持人	2020/01/01~2020/12/31	中興大學與臺中榮民總醫院合作研究	已結案	800,000
異質感測器人工智慧整合平台協助作物之健康預警-作物智慧型健康預警系統之建立(2/3)	計畫主持人	2019/07/01~2020/09/30	國科會	已結案	10,000,000
酪農牧場智慧管理系統建置整合與應用(2/3)	協同主持人	2019/07/01~2020/06/30	國科會	已結案	9,000,000
茶園土壤健康管理智慧系統開發-問題土壤專家診斷系統	協同主持人	2019/07/01~2020/06/30	國科會	已結案	6,200,000

Project title	Position	Duration	Funding agency	Execution status	Funding
開發(2/3)					
智慧農業循環經濟:開發「無人有機廢棄物的人工智慧快速處理廠」之設計及建構(2/4)	共同主持人	2019/01/01~2019/12/31	國科會	已結案	13,250,000
狗鼻紋理以及狗步態與環境互動辨識(2/3)	共同主持人	2019/01/01~2019/12/31	農委會	已結案	1,302,000
利用人工智慧方法建立疾病危險因子分析模式－以糖尿病腎病變透析治療為例	主持人	2019/01/01~2019/12/31	中興大學與中山醫學大學合作研究	已結案	270,000
異質感測器人工智慧整合平台協助作物之健康預警-作物智慧型健康預警系統之建立(1/3)	計畫主持人	2018/07/01~2019/09/30	國科會	已結案	10,000,000
酪農牧場智慧管理系統建置整合與應用(1/3)	協同主持人	2018/07/01~2019/06/30	國科會	已結案	9,000,000
茶園土壤健康管理智慧系統開發-問題土壤專家診斷系統開發(1/3)	協同主持人	2018/07/01~2019/06/30	國科會	已結案	6,000,000
利用機器學習方法建立水稻 T-DNA 插入活化株的兩側基因表現之預測模型	計畫主持人	2017/08/01~2019/07/31	國科會	已結案	1,304,000