



## 劉鎮豪專任教師 個人資訊

### 經歷

- 開南大學 AI 科技與創新創益學士學位學程主任 (Sep. 2025 – Now)
- 開南大學 資訊管理學系系主任 (Nov. 2023 – Now)
- 勞動部勞動力發展署桃竹苗分署外聘教師 (Feb. 2025 – Now)
- 開南大學圖書資訊處 系統開發組組長 (July 2018 – Jan. 2020)
- 開南大學圖書資訊處 圖書資源組組長 (Feb. 2018 – Jan. 2020)
- 開南大學圖書資訊處 網路媒體組組長 (Feb. 2018 – June 2018)
- 開南大學 資訊管理學系系主任 (Aug. 2016 – July 2017)
- 開南大學資訊科技中心 雲端服務組組長 (Mar. 2015 – July 2016)
- 開南大學資訊管理學系 專任助理教授 (Jan. 2009 – Jan. 2011)
- 開南大學數位科技學系 專任助理教授(Aug. 2007 – Jan. 2009)

### 教學/研究/輔導

- 開南大學教師教學評量歷年平均約(4.7/5.0)
- 開南大學教師績效評鑑優等(2008 - Now)
- 開南大學資訊管理學系班級導師(2008 - Now)
- 開南大學桌球社指導老師(2019-2024)
- 開南大學學術研究獎勵(2008-2015)
- 開南大學優良教師(2009)

### 學生獲獎

- 2025 開南大學資管系畢業專題競賽-第一名：二手書網站
- 2025 開南大學資管系畢業專題競賽-第三名：  
SmartFruit+：AI 辨識×時價 API×Discord Bot×團購
- 2020 開南大學資管系畢業專題競賽-第一名：掛號系統
- 2019 青年程式設計競賽-全國自走車競賽：大專樂高車型組-第二名
- 2017 青年程式設計競賽-全國自走車競賽：大專樂高車型組-第二名
- 2017 開南大學資管系畢業專題競賽-佳作：開南美食雲端訂購 APP
- 2016 青年程式設計競賽-全國自走車競賽：大專樂高車型組-第二名

### 證照

- Microsoft Certified Azure AI Fundamentals
- 鼎新 ERP 配銷模組應用師
- APMP-專案管理
- Microsoft Office Master



## 劉鎮豪專任教師 個人資訊

### 學術專長/課程領域

- 人工智慧/機器學習/深度學習
- 程式設計/資料結構/演算法
- 大數據資料分析/資料探勘/資料庫程式設計
- 物聯網應用
- 多屬性決策
- 生產排程
- 時間序列預測

### 學術服務

- Reviewer of Soft Computing
- Reviewer of Journal of Production Engineering
- Reviewer of International Journal Production Economic
- Reviewer of Neurocomputing
- Reviewer of IJISLM
- International Technical Committee of CSCT 2016
- Session chair of ICEI 2012
- Session chair of IEA/AIE 2009
- 勞動部技術士技能檢定學科測試監評委員
- 勞動部訓練機具設備需求評估、購置會議委員
- 教學實踐研究計畫審查委員

### 國內研討會論文(近年)

- Yu-Chun Chen, **Chen-Hao Liu**, “The Application of CNN Models in Yoga Pose Recognition”, Conference on Management Thinking and Practice & Applied Science, Taipei, 14-June, 2024.
- Zhi-Hung Zhu, **Chen-Hao Liu**, “Animal Face Recognition Using Convolutional Neural Network Models”, Conference on Management Thinking and Practice & Applied Science, Taipei, 14-June, 2024.
- Wen-An Chen, Kuo-Min Hung, **Chen-Hao Liu**, “Packet classification based on machine learning”, Conference on Management Thinking and Practice & Applied Science, Taipei, 14-June, 2024.
- Wei-Xiang Huang, **Chen-Hao Liu**, “Research on Covid-19 Optical Image Recognition Using Convolutional Neural Networks (CNN)”, Conference on Management Thinking and Practice & Applied Science, Taipei, 14-June, 2024.



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- Rui-Yong Ou, **Chen-Hao Liu**, Hung-Ming Sun, “Analysis of Darknet Packets Based on Machine Learning”, Conference on Management Thinking and Practice & Applied Science, Taipei, 14-June, 2024.
- Chih-Cheng Lu, **Chen-Hao Liu**, “Research on Applying Convolutional Neural Networks for Animal Image Classification”, Conference on Management Thinking and Practice & Applied Science, Taipei, 14-June, 2024.

## 期刊論文

- **Liu, C.H.**, W.H., Huang, P.C. Chang (2012) “A two-stage AIS approach for grid scheduling problems,” *International Journal of Production Research*, 50(10), pp.2665-2680. (SCI)
- Chang, P.C., J.J. Lin, **C.H. Liu** (2012) “An attribute weight assignment and particle swarm optimization algorithm for medical database classifications,” *Computer Methods and Programs in Biomedicine*, 107(3), pp.382-392. (SCI)
- Chen, Y.W., M. Larbani, **C.H. Liu** (2010) “Simulation of a supply chain game with multiple fuzzy goals,” *Fuzzy Sets and Systems*, 161(11), pp.1489-1510. (SCI)
- Chang, P.C., **C.H. Liu**, C.Y. Fan (2009) “Data clustering and fuzzy neural network for sales forecasting: A case study in printed circuit board industry,” *Knowledge-Based Systems*, 22(5), pp.344-355. (SCI)
- Chang, P.C., C.Y. Fan, **C.H. Liu** (2009) “Integrating a Piecewise Linear Representation Method and a Neural Network Model for Stock Trading Points Prediction,” *IEEE Transactions on Systems, Man, and Cybernetics – part C: Applications and Reviews*, 39(1), pp.80-92. (SCI)
- Pei-Chann Chang, **C.H. Liu**, J.L. Lin, C.Y. Fan, Celeste S.P. Ng (2009) “A neural network with a case based dynamic window for stock trading prediction,” *Expert Systems with Applications*, 36(3), pp.6889-6898. (SCI)
- Chang, P.C., **C.H. Liu**, R. K. Lai (2008) “A fuzzy case-based reasoning model for sales forecasting in print circuit board industries,” *Expert Systems with Applications*, 34(3), pp.2049-2058. (SCI)
- Chang, P.C., **C.H. Liu** (2008) “A TSK type Fuzzy Rule Based System for Stock Price Prediction,” *Expert Systems with Applications*, 34(1), pp.135-144. (SCI)
- Chang, P.C., S.H. Chen, **C.H. Liu** (2007) “Sub-Population Genetic Algorithm with Mining Gene Structures for Multi-objective Flowshop Scheduling Problems,” *Expert Systems with Applications*, 33(3), pp.762-771. (SCI)
- Chang, P.C., Y.W. Wang, **C.H. Liu** (2007) “The development of a Weighted Evolving Fuzzy Neural Network for PCB sales forecasting,” *Expert Systems with Applications*, 32(1), pp.86-96. (SCI)
- Chang, P.C., **C.H. Liu**, Y.W. Wang (2006) “A Hybrid Model by Clustering and Evolving Fuzzy Rules for Sales Decision Supports in Printed Circuit Board Industry,” *Decision Support Systems*, 42(3), pp.1254-1269. (SCI)



## 劉鎮豪專任教師 個人資料

- Chang, P.C., L.Y. Chen, **C.H. Liu** (2006) "An Evolutionary Regulation Algorithm for the Twin Laser Measuring System," *Journal of Intelligent Manufacturing*, 17(5), pp.545-556. (SCI)
- Chang, P.C., J.C. Hsieh, **C.H. Liu** (2006) "A Case-Injected Genetic Algorithm for Single Machine Scheduling Problems with Release Time," *International Journal of Production Economics*, 103(2), pp.551-564. (SCI)

## 國際研討會論文

- Wang, Y.W., **C.H. Liu**, C.Y. Fan (2010) "Develop a Sub-population Memetic Algorithm for Multi-objective Scheduling Problems," *The 2nd International Conference on Computer and Automation Engineering (ICCAE 2010)*, v5, pp.579-583.
- **Liu, C.H.**, C.Y. Lai, Y.W. Wang (2009) "Evolving Fuzzy Case-based Reasoning in Wholesaler's Returning Book Forecasting," *International Conference on Hybrid Information Technology (ICHIT 2009)*, Daejeon, Korea, Aug. 27-29, 2009.
- Chang, P.C., J.C. Hsieh, J.J. Lin, Y.H. Zhou, **C.H. Liu** (2009) "A Hybrid System with Hidden Markov Models and Gaussian Mixture Models for Myocardial Infarction Classification with 12-Lead ECGs," *The 11th IEEE International Conference on High Performance Computing and Communications (HPCC 2009)*, pp.110-116, 2009.
- Wang, Y.W., C.Y. Fan, **C.H. Liu** (2009) "Applying Sub-population Memetic Algorithm for Multi-objective Scheduling Problems," *The 6th International Conference on Informatics in Control, Automation and Robotics, Proceedings (ICINCO 2009)*, v1, pp. 376-379, 2009.
- Chang, P.C., Y.H. Zhou, J.J. Lin, **C.H. Liu** (2008) "New Product Manufacturing Unit Cost Forecasting Using Integrated Case-Based Reasoning and Back Propagation Network approach - The Case of the Mobile Phone," *International Conference on Digital Content (ICDC 2008)*, Chungli, Taiwan, 2008.
- **Liu, C.H.**, P.C. Chang, I.W. Kao (2008) "Cluster Based Evolving FCBR for Flow Time Prediction in Semiconductor Manufacturing Factory," *The Proceedings of the 8th WSEAS International Conference on APPLIED COMPUTER SCIENCE (ACS 2008)*, Venice, Italy, pp.424-429, Nov. 21-23, 2008.
- Chang, P.C., **C.H. Liu**, C.Y. Fan, W.H. Huang (2007) "Establishing a Cluster Based Evolving Fuzzy Decision Tree on Financial Time Series Data," *The 8th Asia Pacific Industrial Engineering and Management Systems Conference (APIEM 2007)*, Kaohsiung December 9-13.
- Chang, P.C., **C.H. Liu**, C.Y. Fan, W.H. Huang (2007) "The Prediction of Stock Trading Point by Integrating a Piecewise Linear Representation Method and a Neural Network Model," *The 8th Asia Pacific Industrial Engineering and Management Systems Conference (APIEM 2007)*, Kaohsiung December 9-13.
- Chang, P.C., **C.H. Liu**, C.Y. Fan, H.C. Chang (2007) "Data Clustering and Fuzzy Neural Network for Sales Forecasting in Printed Circuit Board Industry," *2007 IEEE Symposium on Computational Intelligence and Data Mining (CIDM 2007)*, pp.107-113.



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- Chang, P.C., C.H. Liu, C.Y. Fan (2006) “A Depth-First Mutation-Based Genetic Algorithm for Flow Shop Scheduling Problems,” *International Conference on Hybrid Information Technology (ICHIT'06)*, JeJu, Korea, Vol. 1, pp. 25-32, 2006.

### 國科會計畫

- 「智慧型電網資源決策系統之開發，子計畫四：多目標分散式配電作業排程系統之開發」，MOST-101-2221-E-424-003-MY3。(2012-2015)
- 「智慧型計算於知識萃取之整合研究，子計畫一：開發基於先導知識與模糊決策樹之混合模式於知識萃取之研究-以醫療預測與股市預測為例」，NSC-100-2221-E-424-001。(2011)
- 「智慧型計算於知識萃取之整合研究，子計畫一：開發基於先導知識之混合模式於知識萃取之研究-以醫療預測與股市預測為例(I)」，NSC-99-2221-E-424-003。(2010)
- 「智慧型計算於知識萃取之整合研究，子計畫一：開發基於先導知識之混合模式於知識萃取之研究(I)」，NSC-98-2221-E-424-003。(2009)
- 「建構分群式決策支援系統於訂單交期之預測」，NSC-97-2410-H-424-013。(2008)

### 校內計畫

- 開南大學教師專業課程學群計畫-資通訊及程式設計學群主持人(2015-2022, 2024-2025)
- 開南大學 114 高等教育深耕計畫：子計畫 6-1 數位遠距課輔教學。(2025)

### 產學計畫(共同主持人)

- 「金光煥發人工智慧應用工作坊」，經濟部產業發展數。(2025)
- 「AI 新世代：新住民新映像暨影像創作培力」，教育部第四期大學社會責任實踐計畫。(2025-2027)