

邱志洲 Chih-Chou Chiu

CURRICULUM VITAE

教授

Professor

研究室: 宏裕科技大樓1025室

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實驗室: 顧客關係管理實驗室(科研 743 室)

學歷 Education

美國德州農工大學工業工程博士 1994

Ph.D. in Industrial Engineering, Texas A&M University, 1994

美國密蘇里大學(哥倫比亞校區) 工業工程碩士 1991

MS in Industrial Engineering, University of Missouri-Columbia, 1991

學術經歷 Academic Experience

教授 Professor (1/2000-Now)

台北科技大學經營管理系, 台北市, 台灣

National Taipei University of Technology, Taipei, Taiwan

教授 Professor (8/1999-1/2000)

輔仁大學企業管理學系, 新北市, 台灣

Fu-Jen Catholic University, New Taipei City, Taiwan

副教授 Associate Professor (8/1995-7/1999)

輔仁大學企業管理學系, 新北市, 台灣

Fu-Jen Catholic University, New Taipei City, Taiwan

研究領域 Research Area

- 資料探勘 (Data Mining)
- 深度學習 (Deep Learning)
- 應用統計 (Applied Statistics)
- 顧客關係管理 (Customer Relationship Management)
- 數位轉型(Digital Transformation)

學術期刊論文發表 Publications in Academic Journals

1. Ling-Jing Kao, **Chih-Chou Chiu***, Zi-Jie Lan, Ying-Chieh Chiu, Feng-Yi Lin, Enhancing Crowdfunding Campaign Success through Topic Modeling and Deep Learning Techniques. Submitted and 2nd revision, Financial Innovation (SSCI)
2. Ling-Jing Kao, Yun-Wei Hung, Yung-Ping Tien, **Chih-Chou Chiu***, Development and Multi-criteria Assessment of a Retailer's Digital Transformation Criteria. Journal of Management & Systems, forthcoming. (TSSCI)
3. Ling-Jing Kao, **Chih-Chou Chiu***, Hung-Tse Lin, Yun-Wei Hung, Cheng-Chin Lu (2024), "Unveiling the Dimensions of Digital Transformation: A Comprehensive Taxonomy and Assessment Model for Business", Journal of Business Research, 176, April 2024, 114595. <https://doi.org/10.1016/j.jbusres.2024.114595> [SSCI Impact Factor: 11.3, Q1 in Business].
4. **Ling-Jing Kao**, Chih-Chou Chiu, Cheng-Chin Lu, Chung-Yi, Wu (2023), "Identification and Rating of Workforce Competencies for Manufacturing Process Engineers: Case Study of an IC Packaging Process Engineer", IEEE Transactions on Engineering Management, 70(1), 196-208. doi: 10.1109/TEM.2021.3050343. [SSCI Impact Factor: 8.702, Q1 in Management]
5. 邱志洲、吳忠敏、簡德年、高凌菁、邱德生，加護病房患者臨床結果預測—機器學習與主題模型法之應用。醫務管理期刊，2023，24(3)，1-28.
6. **Chih-Chou Chiu**, Chung-Min Wu, Te-Nien Chien *, Ling-Jing Kao, Chengcheng Li, Han-Ling Jiang, Integrating structured and unstructured EHR data for predicting mortality by machine learning and latent dirichlet allocation method, 2023, 20(5):4340. International Journal of Environmental Research and Public Health. [SCI, IF= 4.614]
7. **Chih-Chou Chiu**, Chung-Min Wu, Te-Nien Chien*, Ling-Jing Kao, Jiantai Timothy Qiu, Predicting the Mortality of ICU Patients by Topic Model with Machine-Learning Techniques, Healthcare, 2022,10,1087. [SSCI, IF=3.16, CiteScore Rank: 13/36=0.36=36%, Nursing-Leadership and Management]
8. **Chih-Chou Chiu**, Chung-Min Wu, Te-Nien Chien *, Ling-Jing Kao, Chengcheng Li, Han-Ling Jiang, Applying an Improved Stacking Ensemble Model to Predict the Mortality of ICU Patients with Heart Failure, 2022,11,6460. Journal of Clinical Medicine. [SSCI, IF=4.964, CiteScore Rank:133/826=0.14=14%, Medicine]
9. Ling-Jing Kao, **Chih-Chou Chiu***, Yu-Fan Lin, Heong Kam Weng, "Inter-Purchase Time Prediction Based on Deep Learning", Computer Systems Science and Engineering, 2022, No. 2, p. 493-508. [SCI Impact Factor: 1.486, Q3 in Computer Science]
10. Ling-Jing Kao, **Chih-Chou Chiu**, Hung-Jui Wang, Chang Yu Ko (2021), "Prediction of Remaining Time on Site for e-Commerce Users : A SOM and Long Short-Term Memory Study", Journal of Forecasting, 2021:1-17.

- <https://doi.org/10.1002/for.2771> [SSCI Impact Factor: 1.570, Q2 in Economics & Business]
11. Ling-Jing Kao, **Chih-Chou Chiu**, Cheng-Chin Lu, Chung-Yi, Wu (2020), “Identification and Rating of Workforce Competencies for Manufacturing Process Engineers: Case Study of an IC Packaging Process Engineer”, IEEE Transactions on Engineering Management. [doi: 10.1109/TEM.2021.3050343](https://doi.org/10.1109/TEM.2021.3050343). [SSCI Impact Factor: 2.784, Q2 in Management]
 12. Ling-Jing Kao, **Chih-Chou Chiu** (2020), “Application of Integrated Recurrent Neural Network with Multivariate Adaptive Regression Splines on SPC-EPC Process”, Journal of Manufacturing Systems, 57, 109-118. <https://doi.org/10.1016/j.jmsy.2020.07.020> [SCI Impact Factor: 5.105, Q1 in Operation Research & Management Science]
 13. 林子瑋、呂正欽、高凌菁、邱志洲(2018), 太陽能發電系統補助方案之最適化推薦-以加州太陽能倡議為例, 數據分析, 13(2), 1-18.
 14. Yuehjen E. Shao, **Chih-Chou Chiu** (2016), “Applying emerging soft computing approaches to control chart pattern recognition for an SPC–EPC process”. Neurocomputing, 201,19–28. <https://doi.org/10.1016/j.neucom.2016.04.004> [SCIE Impact Factor: 4.438, Q1 in Computer Science & Artificial Intelligence]
 15. Yuehjen E. Shao, Chia-Ding Hou, **Chih-Chou Chiu** (2015), “Hybrid intelligent modeling schemes for heart disease classification”. Applied Soft Computing, 14, 47–52. <https://doi.org/10.1016/j.asoc.2013.09.020> [SCIE Impact Factor: 5.472, Q1 in Computer Science & Interdisciplinary Application]
 16. **Chih Chou Chiu**, Yi-Jun Tsai, Chi-Jie Lu (2015), “A two-stage multiobjective artificial immune system-based support vector regression model for Stock index prediction. Journal of Data Analysis, 10 (5),1-30. [https://doi.org/10.6338/JDA.201510_10\(5\).0001](https://doi.org/10.6338/JDA.201510_10(5).0001)
 17. Hsin-Pin Fu, Tien-Hsiang Chang, Ling-Jing Kao, **Chih-Chou Chiu** and Cheng-Chin Lu (2015), " Combining Multicriteria Decision-Making Tools to Identify Critical Success Factors that Affect the Performance of Training Course Projects", Systems Research and Behavioral Science, 32(3), 388-401. <https://doi.org/10.1002/sres.2249> [SSCI Impact factor: 0.731, Q4 in Management]
 18. 陳杏茶、高凌菁、邱志洲 (2015), 共同基金投資行為分析-獨立成份分析與 Cox Regression 方法之應用, 數據分析, 10(5), p129-153.
 19. Ling-Jing Kao, **Chih-Chou Chiu**, Chi-Jie Lu, Chih-Hsiang Chang (2013), “A Hybrid Approach by Integrating Wavelet-based Feature Extraction with MARS and SVR for Stock Index Forecasting”, Decision Support Systems, 54, 1228-1244. <https://doi.org/10.1016/j.dss.2012.11.012> [SCI Impact factor: 2.201]
 20. Ling-Jing Kao, Chi-Jie Lu, **Chih-Chou Chiu**, Jung-Li Yang (2013), “Integration of Nonlinear Independent Component Analysis and Support Vector Regression for Stock Price Forecasting”, Neurocomputing,99, 534-542. <https://doi.org/10.1016/j.neucom.2012.06.037> [SCI Impact factor: 1.595]
 21. Ling-Jing Kao, **Chih-Chou Chiu**, Fon-Yu Chiu (2012), “A Bayesian Latent Variable Model with Classification and Regression Tree Approach for Behavior

- and Credit Scoring”, Knowledge-Based Systems,36, 245-252.
<https://doi.org/10.1016/j.knosys.2012.07.004> [SCI Impact Factor: 4.104]
22. Ling-Jing Kao, Cheng-Chin Lu, and **Chih-Chou Chiu** (2011), “ The Training Institution Efficiency of the Semiconductor Institute Program in Taiwan - Application of Spatiotemporal ICA with DEA Approach”, Journal of the Operational Research Society, 62(12),2162-2172.
<https://doi.org/10.1057/jors.2010.177> [SCI Impact factor: 0.989]
23. Yuehjen E. Shao, Chi-Jie Lu and **Chih-Chou Chiu** (2011), “Fault detection system for an autocorrelated process using SPC/EPC/ANN and SPC/EPC/SVM schemes”, International Journal of Innovative Computing Information and Control, 7(9), 5417-5429.[SCI].
24. Ling-Jing Kao, Chi-Jie Lu, and **Chih-Chou Chiu** (2011), “Efficiency Measurement Using Independent Component Analysis and Data Envelopment Analysis”, European Journal of Operational Research, 210(2), 310-317.
<https://doi.org/10.1016/j.ejor.2010.09.016> [SCI impact factor: 2.038]

專書及專書論文 Books & Book Chapters

1. 邱志洲 謝邦昌 “類神經網路分析 STATISTICA 應用系列叢書（六）” 曉園出版社有限公司。
2. 李天行、邱志洲 “作業研究—線性規劃(2nd Edition)”, 輔仁大學管理學院講義叢書, 2000 年 2 月。
3. 李天行、邱志洲 “作業研究—線性規劃”, 輔仁大學管理學院講義叢書, 1999 年 2 月。
4. “Combined Rule Based Expert Systems and Neural Networks in Forecasting Problems” for the Knowledge Engineering Systems Techniques and Applications, the ACADEMIC Press International Theme Volume 2.
5. “Computer Aided and Integrated Manufacturing Systems Techniques and Applications” for the GORDON and BREACH International Series in Engineering, Technology and Applied Science Volumes

國科會計畫 MOST Projects

1. 「應用深度學習技術與主題模型於 ICU 患者是否死亡之預測」, 國科會專題研究計畫, 計畫主持人, MOST 111-2221-E-027-066-MY3, 2021/8/1-2025/7/31.
2. 「應用具有預處理特性的改進型深度神經網路於混合性干擾型態辨識」, 國科會專題研究計畫, 計畫主持人, MOST 110-2221-E-027-110-, 2021/8/1-2022/7/31.
3. 「整合 GHSOM 與具有預處理特性的改良型深度神經網路於中小型水電五金建材零售商家銷售預測模式之建構」, 國科會產學合作計畫, 計畫主持人, MOST 110-2622-E-027-020-, 2021/6/1-2022/5/31.

4. 「應用文字探勘技術分析台灣半導體封測領域製程工程師職務學用落差現況」, 科技部專題研究計畫, 計畫主持人, MOST 107-2221-E-027 -074 -MY2 , 20180801~20200731.
5. 「用戶原創內容對電視收視率之影響的量化衡量」, 科技部專題研究計畫, 共同主持人, MOST 107-2410-H-027 -007 - , 20180801~20191031.
6. 「應用階層線性模式分析數位電視收視戶收視行為對廣告訊息涉入程度之影響(I)」, 科技部專題研究計畫, 計畫主持人, MOST 106-2221-E-027 -097 - , 20170801~20180731.
7. 「媒體多樣性下之有線電視收視行為的資料融合研究」, 科技部專題研究計畫, 共同主持人, MOST 105-2410-H-027 -005 -MY2 , 20160801~20180731.
8. 「產業升級創新平台輔導計畫—私人訂製專屬兒童故事繪本加值計畫」, 科技部專題研究計畫, 共同主持人, MOST 105-2812-8-027 -002 - , 20160201~20171031.
9. 「應用文字探勘技術分析口碑行銷對數位電視消費者觀看決策之影響」, 科技部專題研究計畫, 計畫主持人, MOST 104-2221-E-027 -037 -MY2 , 20150801~20171031.
10. 「應用獨立成分分析法於共同基金投資決策之研究」, 科技部專題研究計畫, 共同主持人, MOST 103-2410-H-027 -006 - , 20140801~20150930.

產學合作計畫 Industry-Academic Cooperative Research Project

1. 「半導體人才需求調查」, 資策會, 2024/3/28-2024/11/30, 協同主持人
2. 「短效品服務需求資料調查」, 工研院, 2023/6/30-2023/11/30, 協同主持人
3. 「半導體產業產學聯結調查」, 資策會, 2023/5/10-2023/11/30, 協同主持人
4. 「智慧電子人才應用發展推動計畫-人才需求調查研究」, 資策會, 2023/5/10-2023/11/30, 協同主持人
5. 「智慧零售數位落點分析」, 工研院, 2022/5/12-2023/11/30, 協同主持人
6. 「5G+創新應用商業化於智慧建築之相關應用領用研究報告」, 資策會, 2022/5/19-2022/11/30, 協同主持人
7. 「半導體人才需求及培訓機制研究暨產學聯結調查」, 資策會, 2022/4/14-2023/6/30, 協同主持人
8. 「因應 5G 時代來臨零售業之挑戰分析報告」, 資策會, 5/13/2021-10/29/2021, 55 萬, 協同主持人
9. 「創新商業服務方案與擴散計畫」, 財團法人工業技術研究院, 2021/4/25-2022/3/31 萬, 共同主持人
10. 「經濟部工業局 110 年度智慧電子產業人才培訓專案-產業人才暨課程需求調查、產學聯結規劃研究」, 經濟部工業局, 2021/3/1-2021/11/30, 主持人
11. 「中小型店家導入數位服務方案之數據分析研究」, 財團法人工業技術研究院, 2020/10/7-2021/10/30, 共同主持人
12. 「深度學習在居家設施及智慧醫療之整合與應用」, 裕達水電有限公司, 2020/3/1-2021/2/28, 主持人

13. 「經濟部工業局 109 年度智慧電子產業人才培訓專案-產業人才暨課程需求調查、產學聯結規劃研究」,經濟部工業局, 2020/3/1-2020/11/30, 主持人
14. 「經濟部工業局 108 年度智慧電子產業人才培訓專案-產業人才暨課程需求調查、產學聯結規劃研究」,經濟部工業局, 2019/3/1-2019/11/30, 主持人
15. 「經濟部工業局 107 年度智慧電子產業人才培訓專案-產業人才暨課程需求調查、產學聯結規劃研究」,經濟部工業局, 2018/3/1-2017/11/30, 主持人
16. 「東南亞人才在台情況分析」,財團法人工業技術研究院,2017/12/1-2018/2/28, 共同主持人
17. 「智慧車電 SIG 廠商參與研討會活動意願分析」,財團法人工業技術研究院,2017/12/1-2017/2/28, 共同主持人
18. 「智慧車電 SIG 廠商媒合成功率之預測」,財團法人工業技術研究院, 2017/12/1-2018/2/28,共同主持人
19. 「消費者數據創新應用資料探勘與分析研究計畫」,資訊工業策進會, 2017/6/21-2017/11/30, 共同主持人
20. 「經濟部工業局 106 年度智慧電子產業人才培訓專案-產業人才暨課程需求調查、產學聯結規劃研究」,經濟部工業局, 2017/3/1-2017/11/30, 主持人
21. 「私人訂製專屬兒童故事繪本加值計畫」,科技部與格林文化事業股份有限公司, 2016/02/01-2017/10/31, 共同主持人.
22. 「4G 閱聽行為衍生應用研究計畫」,資訊工業策進會, 2016/4/1-2016/11/21, 共同主持人.
23. 「媒體動態隨機抽樣技術」,資訊工業策進會, 2015/1/1-2015/12/10, 主持人.
24. 「智慧家電產品探索性研究」,資訊工業策進會, 2016/4/1-2016/11/30, 共同主持人.
25. 「智慧消費性電子終端產業技術資源盤點」,資訊工業策進會, 2015/3/1-2015/10/31, 共同主持人.
26. 「智慧消費性電子終端產業應用服務體驗與分析報告」,資訊工業策進會, 2014/3/1-2014/11/30, 共同主持人.
27. 「我國電視數位化關鍵議題之加值服務消費性需求分析」,資訊工業策進會, 2013/3/1-2013/10/31, 共同主持人.
28. 「智慧電子學院計畫-適性職能建置」,經濟部工業局, 2016/3/1-2016/10/31, 共同主持人
29. 「經濟部工業局 105 年度智慧電子產業人才培訓專案-產業人才暨課程需求調查」,經濟部工業局, 2016/3/1-2016/10/31, 共同主持人.
30. 「經濟部工業局 104 年度智慧電子產業人才培訓專案-產業人才暨課程需求調查」,經濟部工業局, 2015/4/1-2015/10/31,共同主持人.
31. 「經濟部工業局 103 年度智慧電子產業人才培訓專案-產業人才暨課程需求調查」,經濟部工業局,2014/4/1-2014/11/30, 共同主持人..
32. 「經濟部工業局 105 年度智慧電子產業人才培訓專案-智慧電子產學聯結師資研究」,經濟部工業局,2016/3/1-2016/10/31, 共同主持人.
33. 「經濟部工業局 104 年度智慧電子產業人才培訓專案-智慧電子產學聯結師資規劃研究」,經濟部工業局,2015/4/1-2015/10/31, 共同主持人..

34. 「經濟部工業局 103 年度智慧電子產業人才培訓專案-智慧電子產學聯結師資規劃研究」,經濟部工業局,2014/4/1-2014/11/30, 共同主持人..

國際研討會論文發表 International Conference Presentation

- "An integer programming model with classification and regression tree approach for construction quality auditor assignment", 29th European Conference on Operational Research, Valencia, Spain, July 8-11, 2018.
- "The Impact of Keywords in Social Media Posts on the Television Viewing Behavior: An Example of Baseball World Cup", 2017 International Conference on Big Data Research (ICBDR 2017), Osaka, Japan, October 22-24, 2017.
- "Applying Analytic Network Process to Explore Consumer Adoption of Radical Innovation: a Case Study of Smart Home Technologies", MCDM 2015-23rd International Conference on Multiple Criteria Decision Making, Hamburg, Germany, August 2-7, 2015.
- "DEA and Bayesian Method in Evaluating the Efficiency of Credit Card Cardholder", 2014 Global Business & International Management Conference, USA, Aug 9-11, 2014
- "Building Stock Trading Strategies by Independent Component Analysis with Data Envelopment Analysis Approach", 2014 International Conference on Business and Information, Japan, July 3-5, 2014.
- "An Empirical Evidence of the Network Externality between Mobile Apps and Digital Television Services", 2013 Frontiers in Service Conference, Taipei, Taiwan, July 4-7, 2013
- "Wavelet-based Stock Index Forecasting Model", 2013 13th INFORMS Computing Society Conference, Santa Fe, New Mexico, USA, January 6-8, 2013.
- "Applying a Hybrid Data Envelopment Analysis Approach to Construct an Intelligent Stock Trading System", 2012 5th International Conference on Information Sciences and Interaction Science, Korea, June 26 - 28, 2012.
- "Applying Spatiotemporal ICA with DEA Approach in Evaluating the Training Institution Efficiency of the Semiconductor Institute Program in Taiwan", The IEEE International Conference on Industrial Engineering and Engineering Management, December 7-10, 2010, Macao, China.

專業服務 Professional Service

- 財團法人資訊工業策進會智慧電子人才運用發展推動計畫專家顧問(2023/6/1-2023/12/31)
- 數位經濟暨產業發展協會(DTA) 專家顧問(2021/6/18-2021/12/31)
- 教育部製商整合計畫審查委員
- 經濟部技術處示範性計畫審查委員
- 經濟部技術處協同設計計畫審查委員
- 經濟部工業局資訊服務業計畫審查委員
- 經濟部工業局協助傳統工業技術開發計畫審查委員
- 經濟部中小企業處e化計畫審查委員
- 經濟部商業司商業e化計畫審查委員
- 經濟部工業局科技事業暨產品或技術開發審查委員
- 經濟部工業局數位電視計畫審查委員

榮譽 Honors

- 97學年度經營管理系傑出教學獎(2008)
- 99學年度經營管理系傑出教學獎(2010)
- 101學年度經營管理系傑出教學獎(2012)
- 97學年度管理學院傑出教學獎(2008)
- 99學年度管理學院傑出教學獎(2010)
- 101學年度管理學院傑出教學獎(2012)
- 96學年度管理學院傑出研究獎(2007)
- 99學年度管理學院傑出研究獎(2010)