

# 邱昭彰 教授 個人資料

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## 一、個人基本資料

學歷：	美國馬里蘭大學	資訊系統	博士
	美國亞利桑那州立大學	決策科技系統	碩士
	國立清華大學	數學系	學士

## 二、研發專長 & 校外產學服務



校外產學服務 (詳細年份請參閱申請資料)	
<b>評鑑委員</b>	* 大學校務評鑑 委員 (逢甲/文化) * 大學暨科大系所評鑑 委員 (北大/東海/銘傳/真理/勤益/樹德...) * 校外系所自評 委員 (暨南/警大/開南/虎尾...)
<b>產業參與</b>	* 創宇航太科技顧問 * 榮成紙業董事 * 上海集商網絡86Links首席大數據/AI顧問 * SuperPoll Inc. BI顧問
<b>學術團體</b>	* 中華民國數位內容學會 理事 * 中華企業資源規劃學會 理事 * 經濟部PKI互通管理及推計畫審查 委員 * 台灣省政府衛生處經營專業管理 顧問

### 鏈結外部 產學合作與顧問諮詢

### 獲獎與榮譽

- ✓ 獲頒元智大學研究傑出獎
- ✓ 獲頒行政院服務品質獎
- ✓ 中華民國醫療品質協會--醫療品質促進優良案例特優獎
- ✓ 經濟部商業司優化商業標竿案例
- ✓ 台灣作業研究學會大專院校專題競賽第三名&佳作
- ✓ 獲頒元智大學校務研究(IR)亮點計劃

## 三、著作、作品及發明目錄

### 期刊發表：

1. Kuo-Hsiung Wu,; Po-Yang Chen; Chaochang Chiu, "A Social Media Based Profiling Approach for Potential Churning Customers: An Example for Telecom Industry," Journal of Internet Technology, vol. 23 (7) pp. 1565-1571, 2022/12
2. Fong-Ching Yuan, Chao-Hui Lee, Chaochang Chiu (2020, Feb). Using Market Sentiment Analysis and Genetic Algorithm-Based Least Squares Support Vector Regression to Predict Gold Prices (SCI). International Journal of Computational Intelligence Systems, Volume 13(1), Feb. 2020, 234-246.
3. Chi-I Hsu, Shelly P. J. Wu, Chaochang Chiu (2019, Apr). A Hybrid Swarm Intelligence Approach for Blog Success Prediction. International Journal of Computational Intelligence Systems, 12(2), 571-579. (SCI, 68/134, computer science, artificial intelligence). MOST 104-2410-h-155-029-my2. 本人為通訊作
4. Chaochang Chiu, Nan-Hsing Chiu, Re-Jiau Sung, Pei-Yu Hsieh, "Opinion mining of hotel customer-generated contents in Chinese weblogs," Current Issues in Tourism, Vol. 18(5), 2015, pp. 477-495. (SSCI)
5. Yungchang Ku, Chaochang Chiu, Yulei Zhang, Hsinchun Chen, "Text Mining Self-Disclosing Health Information for Public Health Service", Journal of the Association for Information Science and Technology, (used to be JAIST), Vol. 65(5), May 2014, pp. 928-947 (SCI)

6. Re-Jiau Sung, Chaochang Chiu, Nan-Hsing Chiu, Chih-Hao Hsiao, "Online detection of concerned HIV-related messages in web forums," *AIDS Care: Psychological and Socio-medical Aspects of AIDS/HIV*, 9 Jan 2014, pp. 337-342. (SSCI)
7. Chaochang Chiu, Nan-Hsing Chiu, Pei-lun Hsu, Hsienmin Lee, and Michael Shan-Hui Ho, "Enhancing BEF Luminance for TFT-LCD Industries using the Hybrid Approach of Prediction and Optimization Techniques," *Applied Mathematics & Information Sciences*, April, 2012, pp. 561S-565S (SCI)
8. Wen-Bin Liu, Chin-Wei Tso, Chaochang Chiu, Meng-Long Shih, "Application of Network DEA in the Assessment of Operating Performances of Farmers Associations in Taiwan," *Journal of Interdisciplinary Mathematics*, Vol. 15, No. 1, 2012, pp. 65-81.
9. Weiping Chang, Yungchang Ku, Sinru Wu, Chaochang Chiu, "CybercrimeIR – A Technological Perspective to Fight Cybercrime," *Intelligence and Security Informatics, Lecture Notes in Computer Science*, Vol. 7299, 2012, pp. 36-44. (EI)
10. Ming Yang, Melody Kiang, Yungchang Ku, Chaochang Chiu, and Yijun Li, "Social Media Analytics for Radical Opinion Mining in Hate Group Web Forums," *Journal of Homeland Security and Emergency Management*, Volume 8, Issue 1, 2011, Article 38. (SSCI)
11. Chaochang Chiu, Yungchang Ku, Ting Lie, Yuchi Chen, "Internet Auction Fraud Detection using Social Network Analysis and Classification Tree Approaches," *International Journal of Electronic Commerce (IJEC)*, Vo. 15, No. 3, 2011, pp. 123-147. (SSCI)
12. Hsien-Ta Lin, Jhih-Chun Jian, C. Chiu, Meng-Long Shih, Dynamic Analysis of Internet Word-of-Mouth on Resort Hotels, *Journal of International Management Studies*, Vol.6 Number 2, May Issue, 2011, pp. 152-160. (ABI)
13. Kuang-Hung Hsu, Chaochang Chiu, Nan-Hsing Chiu, Po-Chi Lee, Wen-Ko Chiu, Thu-Hua Liu and Chorng-Jer Hwang, "A Case-Based Classifier for Hypertension Detection," *Knowledge-Based Systems*, Volume 24 Issue 1, February, 2011, pp. 33-39 (SCI)
14. Shu-Hua Hsiao, Pei-Wen Wang, Chaochang Chiu, G-Lun Chung, Ke-Chung Peng, Meng-Long Shih, "A study of Linkage Analysis on The Cultural and Creative Industries," *International Journal of Information Processing and Management*, Vol. 1, No. 2, 2010, pp. 133-139.
15. Jia-Jan Lee, Yi-Jing Su, Chaochang Chiu, Meng-Long Shih, Wei-Yu Hu, "Research on Price Fluctuation in the International Grain Market of Fish Feedstuff and Local Price of Milkfish in Taiwan," *Journal of International Management Studies*, Vol. 5, No. 2, pp. 270~280, August 2010. (ABI)
16. Shih, M. L.; Huang, B. W.; Chiu, Nan-Hsing; Chiu, C.; Hu, W. Y., "Farm Price Prediction Using Case-Based Reasoning Approach – A Case of Broiler Industry in Taiwan," *Computers and Electronics in Agriculture*, Vol. 66, Issue 1, 2009, pp. 70-75. (SCI)
17. Michael Shan-Hui Ho, Kun-Yu Hung and Le-Pong Chin, Chaochang Chiu "Constructing Optimized Bioinformatics Parallel Subtractor and Divider with Basic Logic Operations in the Adleman-Lipton Model," *ICIC Express Letters*, Vol. 3, No. 4(A), pp. 1013-1018. (EI)
18. Chi-I Hsu, Chaochang Chiu, Michael Shan-Hui Ho "The Prediction of PKI Security Performance using PSO and Bayesian Classifier," *ICIC Express Letters*, Vol. 3, No. 4(A), pp. 1031-1036. (EI)
19. Chaochang Chiu, Michael Jien-Jarn Wu, Yao-Tsarn Tsai, Nan-Hsing Chiu and Michael Shan-Hui Ho, Horng-Jeng Shyu "Constrain-based Particle Swarm Optimization (CBPSO) for Call Center Scheduling," *International Journal of Innovative Computing, Information and Control*, Vol. 5, No. 12(A), 2009, pp. 4541-4549. (SCI)
20. Michael Shan-Hui Ho, Jyhjong Lin and Chaochang Chiu, "Constructing Bio-logical Molecular Parallel Adder and Multiplier Using the Adleman-Lipton Model," *International Journal of Innovative Computing, Information and Control*, Vol. 5, No. 12(A), 2009, pp. 4573-4582. (SCI)
21. I-Shyan Hwang, C. Chiu, Zen-Der Shyu, "A Frequent-Pattern Approach for Optical Networks Routing Planning," *Photonic Network Communications*, Vol. 17, No. 3, 2009, pp. 218-225. (SCI)

22. Huang, B. W., Shih, M. L.; Chiu, N. H., Hu, W. Y, Chiu, C., "Price Information Evaluation and Prediction for Broiler Using Adapted Case-based Reasoning Approach," *Expert Systems with Applications*, 36 (2009) 1014–1019 (SCI)
23. Yuan, F. C. and Chiu, C., "A Hierarchical Design of Case-based Reasoning in the Balanced Scorecard Application," *Expert Systems with Applications* 36 (2009) 333–342 (SCI)
24. Chiu, C., Kuang-Hung Hsu, P. L. Hsu, Chi-I Hsu, Po-Chi Lee, Wen-Ko Chiu, Thu-Hua Liu, Yi-Chou Juang, Chorng-Jer Hwang, "Mining Three- Dimensional Anthropometric Body Surface Scanning Data for Hypertension Detection," *IEEE Transactions on Information Technology in Biomedicine (IEEE, TITB)*, Vol. 11, No. 3, May 2007, pp. 264-273 (SCI)
25. Yang, L. S., Chiu, C., "Subscriber Churn Prediction in Telecommunications," *WSEAS Transactions on Mathematics*, Issue 2, Vol. 6, Feb. 2007, pp. 316-323. (EI)
26. Hsu, P. Hsu, C. I. and Chang, P. C., Chiu, C., "Mining Flow-time in Wafer Manufacturing Processes using Constraint-Based Evolutionary Regression Trees," *International Journal of Production Research*, Vol. 44, No. 24, 15 December 2006, pp. 5327–5341. (SCI)
27. I-Shyan Hwang, Chiu, C., Ruey Rong Su, Zen-Der Shyu, "Burst Routing Planning for Optical Networks using the Association Rule Approach," *International Journal of Computer Science and Network Security*, Vol. 6, No.10, 2006.
28. Chiu, C., Chen, Chen, An-Pin, and Tien, J. Y. "Personal Asset Allocation using Particle Swarm Optimization Approach," *WSEAS Transactions on Computers*, Issue 1, Vol. 5, November 2006, pp. 2558-2564. (EI)
29. Chiu, Chaochang, Pei-Lun Hsu and Nan-Hsing Chiu, "Combining Apriori Algorithm and Constraint-Based Genetic Algorithm for Tree Induction for Aircraft Electronic Ballasts Troubleshooting," *Lecture Notes in Computer Sciences*, Volume 4221/2006, pp. 381-384. (SCI)
30. Chiu, C. and Hsu, P. L., "A Constraint-Based Genetic Algorithm Approach for Mining Classification Rules," *IEEE Transactions on Systems, Man & Cybernetics*, Vol.35, No.2, pp. 205-220. May 2005. (SCI)
31. Yuan, F., Hsu, C., Chiu, C., and Hsu, P., "An Intelligent Support Systems for Supplier Evaluation," *International Journal of Management & Enterprise Development*, Vol. 2, No. 3, 2005, pp. 441-457,
32. Chiu, C. and Tsao, G., "The Optimal Airline Overbooking Strategy under Uncertainties," *Lecture Notes in Artificial Intelligence (LNAI)*, Vol.3213, pp937-945, 2004. (SCI)
33. Chiu, C. and Chiu, N., "An Adapted Covering Algorithm Approach for Modeling Airplanes Landing Gravity," *Expert Systems with Applications*, Volume 26, Issue 3 , April 2004, Pages 443-450. (SCI)
34. Hsu, C., Chiu, C., Hsu, P. "Predicting Information Systems Outsourcing Success using A Hierarchical Design of Case-Based Reasoning," *Expert Systems with Applications*, Vol. 26, Issue 3 , April 2004, Pages 435-441 (SCI)
35. Chiu, C., Chiu, N. H. and Hsu, C., "Intelligent Aircraft Maintenance Support System Using Genetic Algorithms and Case-Based Reasoning," *International Journal of Advanced Manufacturing Technology*, Vol. 24, No. 5-6, September 2004, pp. 440-446. (SCI)
36. Chiu, C. and Chiu, N., "The Prediction of Airplane Landing Gravity using Case-Based Reasoning," *International Journal of Industrial Engineering*, Vol. 10, No. 1, 2003, pp. 82-89. (SCI)
37. Hsu, P., Lai, R., Chiu, C., and Hsu, C., "The Hybrid of Association Rule Algorithms and Genetic Algorithms for Tree Induction: An Example of Predicting Student Course Performance," *Expert Systems with Applications*, Vol. 25, No. 1, 2003, pp.51-62. (SCI)
38. Chiu, C., Chang, P., Chiu, N., "A Case-Based Expert Support System for Due-Date Assignment in A Wafer Fabrication Factory," *Journal of Intelligent Manufacturing*, Vol. 14, 2003, pp.287-296. (SCI)
39. Chiu, C. "A Case-Based Customer Classification Approach for Direct Marketing," *Expert Systems with Applications*, Vol. 22, No. 2, 2002, pp. 163-168.
40. Hsu, H. , Chiu, C. , Hsu, P. , Lin, M., "Evaluation Systems for Medical Service Quality: An Example of Predicting Insurance Payment Reduction Rate using Neural Nets," *Journal of Cardiopulmonary Rehabilitation*, 2001, 29(4), pp. 185-193. (in Chinese)

41. Chiu, C. "A Case-Based Customer Classification Approach for Direct Marketing," *Expert Systems with Applications*, Vol. 22, No. 2, 2002, pp. 163-168.
42. Chiu, C., J. T. Hsu, C. Y. Lin, "The Application of Genetic Programming in Milk Yield Prediction for Dairy Cows," *Lecture Notes in Artificial Intelligence (LNAI)*, Vol. 2005, 2000, pp.598-602. (SCI)
43. Chiu, C., Hsu, P., and Norcio, A. F., "A Fuzzy Reasoning Approach to Support Knowledge Acquisition," *International Journal of General Systems*, Vol. 28, No. 2-3, 1999, pp. 227-241.
44. Chiu, C., Lee, A., "GA-Fuzzy Expert System to Support Financial Security Investment Decision," *Journal Information Management Research*, Vol. 2, No. 2, July 2000, pp. 61-82. (in Chinese)
45. Chiu, C., Chang, J., "Data Mining for the Optimal Control of Production Manufacturing," *Electronic Engineering Monthly Magazine*, Aug 2000, pp. 226-235. (in Chinese)
46. Wu, H., Chiu, C., Liao, J., Wen, H., Hsu, W, Wang, L., "The Study of Increasing Daycare Retention Rate for Psychiatric Patients," *Journal of Medical Quality*, Vol. 2, No. 1, Mar 2000, pp. 24-38. (in Chinese)
47. Chiu, C., Lee, A., "Genetic Algorithms for Stock Markets Investment Decision," *Journal of Chenchi Information Management Review*, Vol. 8, Dec 1998, pp. 21-38. (in Chinese)
48. Liu, C., Chiu, C., Chang, C., "A Nurse Rostering System using Genetic Algorithms," *Journal of Medical Information*, Vol. 2, Dec 1998, pp. 19-37. (in Chinese)
49. Chiu, C., Yang, T., "Adaptive Environment Design for Hypermedia Learning: An Example for Computer-Aided Financial Ratios Learning System," *Journal of Information Management*, Vol. 4, No. 2, Jan 1988, pp. 19-38. (in Chinese)
50. Chiu, C., Jih, H. J., and Hsu, C., "Supporting Network Based Learning Environments: Performance Monitoring by Causal Modeling," *International Journal of Educational Telecommunications*, Vol.1, No.2/3, 1995, pp. 309-321. (SSCI)
51. Chiu, C., Norcio, A. F., Hsu, C., "Reasoning on Domain Knowledge Level in Human-Computer Interaction," *Information Sciences (Applications): An International Journal*, Vol. 1, No.1, 1994, pp. 31-46. (SCI)

### 三、學術獎勵及榮譽事蹟

#### 學術計畫

1	114	國科會	從新聞到交易：利用大型語言模型進行基於強化學習的股票交易模型(113-2410-H-155-034-)	20240801~20250731	計畫主持人
2	113	國科會	深度學習演算技術與船舶自動識別系統數據於近港海域船舶密度預測之研究(112-2221-E-155-018-)	20230801~20240731	計畫主持人
3	112	國科會	自動問答技術協助長照與保健知識之獲取(111-2410-H-155-009-)	20220801~20230731	計畫主持人
4	112	國科會	KIWI 語言模型 - 整合圖像之知識資訊於文本生成之多模態遷移學習研究(110-2635-E-424-001-)	20210801~20220731	共同計畫主持人
5	110	國科會	結合 BERT 深度學習技術與社群網絡分析方法探索社群媒體與新聞媒體之關聯性分析 109-2410-H-155-023-	20200801~20210731	計畫主持人
6	109-107	國科會	混合式 TextRank/GA 之關鍵詞萃取技術在輿情分析並結合交叉查榜大數據於考生選填行為之研究 107-2410-H-155-024-MY2	20180801~20200731	計畫主持人
7	106	國科會	以線上評論分析探索遊戲應用程式之生命週期 106-2410-H-155-017-	20170801~20180731	計畫主持人
8	105	國科會	監督式潛在狄利克里分配演算法在手機應用程式之評價探勘 105-2410-H-424-004-	20160801~20170731	共同主持人
9	104	國科會	以關聯網絡分析探討虛擬社群對於大專院校形象之影響 104-2410-H-155-019-	20150801~20160731	共同主持人
10	106-104	國科會	利用社群媒體分析以探索商業服務內涵及偵測潛在客戶流失：以電信業網路言論為例 104-2410-H-155-029-MY2	20150801~20171231	計畫主持人
11	103	國科會	影響使用者下載遊戲 App 的評選因素分析與意見探勘 103-2410-H-424-016-	20140801~20150731	共同主持人
12	104-102	國科會	結合議題分類與改良式潛在語意技術在發展網路問答機制的研究 102-2410-H-155-035-MY2	20130801~20150731	計畫主持人
13	102-099	國科會	網路顧客情報整合及行銷服務：資訊擷取、文本分析、模式建構與系統評估 99-2410-H-155-036-MY3	20100801~20130731	計畫主持人
14	099-096	國科會	電子化服務與價值創造--子計畫七：電子化服務客戶目標行銷與廣告組合最適化的研究 96-2416-H-155-004-MY3	20070801~20100731	計畫主持人

15	095	國科會	結合預測與最適化搜尋技術在奈米碳管合成製程最佳化之研究 95-2416-H-155-027-	20060801~ 20070731	計畫主持人
16	094	國科會	改良式基因演算技術在建構演化樹最佳化的應用 94-2416-H-155-014-	20050801~ 20060731	計畫主持人
17	094	國科會	印刷電路板生產規劃決策支援系統之開發-子計畫二:印刷電路板產品組合最佳化規劃(3/3)94-2213-E-155-004-	20050801~ 20060731	計畫主持人
18	093	國科會	結合關聯歸規則與限制式演化式計算於問題診斷分類樹之挖掘 93-2416-H-155-013-	20040801~ 20050731	計畫主持人
19	093	國科會	印刷電路板生產規劃決策支援系統之開發-子計畫二:印刷電路板產品組合最佳化規劃(2/3)93-2213-E-155-017-	20040801~ 20050731	計畫主持人
20	092	國科會	印刷電路板生產規劃決策支援系統之開發-子計畫二:印刷電路板產品組合最佳化規劃(1/3)92-2213-E-155-055-	20030801~ 20040731	計畫主持人
21	092	國防科技研究計畫	國軍重要武器裝備線上智慧型保修之開發與建置-智慧型保修系統資料蒐集取樣與傳輸規劃模式的研究 92-2623-7-155-011-	20030101~ 20031231	計畫主持人
22	091	國科會	基因演算結合涵蓋演算法應用在資料切割以產生規則(II)91-2213-E-155-015-	20020801~ 20030731	計畫主持人
23	091	國防科技研究計畫	故障診斷除錯專家決策輔助系統之開發 91-2623-7-155-013-	20020101~ 20021231	計畫主持人
24	090	國科會	整合基因演算法與決策樹於飛行降落模式之建構 90-2218-E-155-009-	20010801~ 20020731	計畫主持人
25	089	國科會	遞迴式切割與基因演算混合法在決策樹自動建構上之研究 89-2416-H-155-056-	20000801~ 20010731	計畫主持人
26	089	國科會	動態基因規劃 89-2416-H-155-015-	19990801~ 20000731	計畫主持人
27	089	國防科技研究計畫	利用動態基因規劃法建構飛機結構負載模式 89-2623-7-155-004-	20000701~ 20001231	計畫主持人
28	089	國防科技研究計畫	基因工程演算法則應用於飛機結構負載歷程之分析 89-2623-D-155-005-	19990701~ 20000630	計畫主持人
29	088	專題研究計畫	GA-Fuzzy 專家系統在證券投資決策之輔助應用 88-2416-H-155-019-	19980801~ 19990731	計畫主持人
30	088	國防科技研究計畫	非破壞檢測專家系統推理機構之開發 88-2623-D-155-003-	19980701~ 19990630	計畫主持人
31	086	國科會	應用案例為基礎之推理方法於財務決策支援 86-2416-H-155-002-	19960801~ 19970731	計畫主持人

32	085	國科會	探討使用者解決問題之能力模式以有效提升決策支援 85-2416-H-155-002-	19950801~ 19960731	計畫主持人
33	084	國科會	電腦教學系統中即時擷取始用者之電腦相關知識 84-2511-S-155-001-CL	19940801~ 19950731	計畫主持人
34	083	國科會	電腦教學系統中即時擷取始用者之電腦相關知識 83-0111-S-155-003-CL	19940401~ 19941115	計畫主持人

## 產學計畫

計畫名稱	民國 (年)	支持單位
1. 生成式 AI 創新應用之顧問服務	1120501- 1121231	連展投資控股
2. 智慧稽核之異質性數據平台再工程與作業效能之優化	1090815- 1100131	遠東新世紀-稽核總部
3. 應用機器學習在燃氣渦輪發動(GT)啟機異常預警模式之建構	1090415- 1091231	嘉惠電力
4. 智慧稽核與大數據分析顧問諮詢	1081201- 1090830	遠東新世紀-稽核總部
5. 工業大數據分析應用技術	1080401- 1081130	工研院
6. 大數據運用於設備運轉及故障模式分析( I )	1071201- 1080731	嘉惠電力
7. AI/大數據分析之教育訓練與顧問諮詢計畫	1071101- 10805130	遠東新世紀
8. 高耗能產業製程節能分析技術	1070323- 1071130	工研院
9. 大數據分析技術與應用案例介紹之教育訓練課程	1060401- 1060730	遠東新世紀
10. 以使用者行為模式為基礎之企業文件內容需求預測技術	1020601- 1021130	資策會
11. 商業智慧之技術與案例分析	1020401- 1021220	資策會
12. 恆溫箱失效模型建構與評估實驗方法設計	1020403- 1041210	工研院
13. 生產線排程優化規劃	1000801- 1011231	佳能企業
14. 中式速食之虛實整合智慧點餐服務發展計畫	990414- 1011130	鬚鬚張
15. 饗樂主義智慧餐飲商業網絡計畫	1000215- 1010215	饗賓餐旅事業
16. 經營輔助情報系統建置規劃與智慧型決策分析模式技術發展 〈主持人〉	941221- 951220	中央健保局
17. 智慧型維修系統專利檢索分析與佈局研究 〈主持人〉	940901- 951231	工研院
18. 我國 PKI 應用之績效評量指標研究及市調報告 〈主持人〉	940221- 941120	工研院

19. 人工智慧與專家系統在設備失效診斷的技術應用 〈主持人〉	930401- 931231	工研院
20. 學習型醫院推動專案—顧客管理網路〈主持人〉	901215- 911130	衛生署彰化醫院
21. 智慧型保修系統〈共同主持人〉	910405- 911231	中山科學研究院
22. 智慧型保修系統-超高壓電源系統迴路之遠端監控 器之製作研究〈共同主持人〉	900521- 901130	中山科學研究院
23. 九十年度全面品質經營活動計畫〈共同主人〉	900401- 901130	署立桃園醫院
24. 遠傳電信客戶關係管理系統專案補助〈主持人〉	890901- 891201	遠傳電信公司
25. 推動全面品質管理計畫〈主持人〉	881016- 890830	行政院衛生署桃園療養 院
26. 全面品質經營計畫〈共同主持人〉	870901- 880531	行政院衛生署八里療養 院
27. 全面品質經營計畫〈共同主持人〉	870901- 880430	行政院衛生署省立桃園 醫院
28. 應用混合型模糊控制技術於水泥製程最佳化 〈共同主人〉	881115- 890515	亞洲水泥公司
29. 業務統計，管理統計與績效評核系統整合 〈共同主持人〉	880301- 881225	中央健保局
30. 建立區域整體資源規劃資料庫先期研究〈主持 人〉	880101- 880630	台灣電力股份有限公司