

五、論文著述：

1. 請詳列個人最近五年內發表之學術性著作，包括：期刊論文、專書及專書論文、研討會論文、技術報告及其他等，並請依各類著作之重要性自行排列先後順序。
2. 各類著作請按發表時間先後順序填寫。各項著作請依作者姓名（按原出版之次序）、出版年、月份、題目、期刊名稱（專書出版社）、起迄頁數之順序填寫，被接受刊登尚未正式出版者請附被接受函。
3. 若期刊屬於 SCI、EI、SSCI 或 A&HCI 等時，請註明；若著作係經由國科會補助之研究計畫所產生，請於最後填入相關之國科會計畫編號。
4. 論文著述(表 C302)，請採 MS Word 97(含)以上版本輸入資料，並將輸入的檔案以 E-Mail 方式傳遞本會。E-Mail 位址：nscapply@nsc.gov.tw，Mail 之主旨請註明 C302, "身分證號碼"。

(A)期刊論文：

- C.-B. Cheng and E. S. Lee, 1999, Applying fuzzy adaptive network to fuzzy regression analysis, *Computers and Mathematics with Applications*, 38(2),123-140. (SCI)
- C.-B. Cheng and E. S. Lee, 1999, Nonparametric fuzzy regression – k-NN and kernel smoothing techniques, *Computers and Mathematics with Applications*, 38(3/4), 239-251. (SCI)
- C.-B. Cheng and E. S. Lee, 1999, Response surface based on fuzzy adaptive network, *International Journal of Fuzzy Systems*, 1(1), 14-24.
- C.-B. Cheng, 2000, Multi-response optimization based on a neuro-fuzzy system, *Neural Network World*, 10(4), 545-551. (EI)
- C.-B. Cheng and E. S. Lee, 2001, Fuzzy regression with radial basis function network, *Fuzzy Sets and Systems*, 119, 291-301. (EI, SCI)
- C.-B. Cheng and E. S. Lee, 2001, Switching regression analysis by fuzzy adaptive network, *European Journal of Operational Research*, 128, 647-663. (SCI, EI)
- C.-B. Cheng, C.-J. Cheng and E. S. Lee, 2002, Neuro-fuzzy and genetic algorithm in multiple response optimization, *Computers and Mathematics with Applications*, 44, 1503-1514. (SCI) (NSC 90-2218-E-324-004)

- C.-B. Cheng, 2003, A fuzzy inference system for similarity assessment in case-based reasoning systems: an application to product design, *Mathematical and Computer Modeling*, 38, 385-394. (SCI Expanded)
- 劉錦輝、鄭啟斌，2003，應用品質機能展開與模糊迴歸分析於新產品之設計開發：以氣動釘槍之設計為例，*朝陽學報*，8, 223-235.(NSC 89-2213-E-324-048)
- C.-B. Cheng, 2004, Process optimization by soft computing and its application to a wire bonding problem, *International Journal of Applied Science and Engineering*, 2(1), 59-71.
- C.-B. Cheng, 2004, Group opinion aggregation based on a grading process: a method for constructing triangular fuzzy numbers, *Computers and Mathematics with Applications*, 48, 1619-1632. (SCI)
- C.-B. Cheng, 2005, Fuzzy process control: construction of control charts with fuzzy numbers, *Fuzzy Sets and Systems*, 154(2), 287-303. (SCI)
- C.-B. Cheng, C.-L. Chen, and C.-J. Fu, 2006, Financial distress prediction by a radial basis function network with Logit analysis learning, *Computers and Mathematics with Applications*, 51, 579-588. (SCI)
- C.-C. H. Chan, C.-B. Cheng, and S.-W. Huang, 2006, Formulating ordering policies in a supply chain by genetic algorithm, *International Journal of Modeling and Simulation*, 26(2), 129-136. (NSC93-2213-E324-014) (EI)
- C.-B. Cheng, Z.-Y. Liu, S. W. Chiu, and C.-J. Cheng, 2006, Applying fuzzy logic control to inventory decision in a supply chain, *WSEAS Transactions on Systems*, 5(8), 1822-1829. (NSC93-2213-E324-014) (EI)
- C.-B. Cheng, C.-C. H. Chan, and K.-C. Lin, 2006, Intelligent agents for e-Marketplace: negotiation with issue trade-offs by fuzzy inference systems, *Decision Support Systems*, 42(2), 626-638. (SCI)
- C.-J. Fu, C.-B. Cheng, B.-G. Chang, and Y.-J. Lai, 2007, Direct and indirect effects of innovations on revenue growth: comparison between US and Taiwanese electronic firms, *International Journal of Revenue Management*, 1(2), 177-199.
- C.-B. Cheng, C.-C. H. Chan, and Y.-F. Hsieh, 2007, Performance Enhancement of Bayesian learning: an application involving the bargaining agent of an online bookstore, *Journal of the Chinese Institute of Industrial Engineers*, 24(5), 388-396. (EI)
- C.-B. Cheng and C.-P. Mao, 2007, A modified ant colony system for solving the traveling salesman problem with time windows, *Mathematical and Computer Modeling*, 46, 1225-1235. (SCI Expanded)
- C.-C. H. Chan, C.-B. Cheng, and C.-H. Hsu, 2007, Bargaining strategy

- formulation with CRM for an e-Commerce agent, *Electronic Commerce Research and Applications*, 6, 490-498. (SSCI, SCIE, EI)
- Y.-S. P. Chiu, C.-K. Ting, C.-B. Cheng, and F.-Y. Lin, 2007, Alternative approach for realistic lot-size problem with random scrap rate and backlogging, *WSEAS Transactions on Mathematics*, 6(6), 736-740. (EI)
- C.-B. Cheng, B.-G. Chang, and C.-J. Fu, 2008, Evaluating the effectiveness of a balanced scorecard system implemented in a functional organization, *Journal of International Management Studies*, 3(1), 266-274. (NSC 92-2213-E324-017)
- C.-B. Cheng and C. Wang, 2008, Outsourcer selection and order tracking in a supply chain by mobile agents, *Computers & Industrial Engineering*, 55, 406-422. (NSC 94-2213-E-032-032) (SCI)
- C.-B. Cheng, 2008, Performance evaluation for a balanced scorecard system by group decision making with fuzzy assessments, *International Journal of Applied Science and Engineering*, 6(1), 53-69.
- C.-B. Cheng, 2008, Solving a sealed-bid reverse auction problem by multiple-criterion decision-making methods, *Computers and Mathematics with Applications*, 56, 3261-3274. (NSC 96-2416-H-032-004-MY3) (SCI)
- C.-B. Cheng and K.-P. Wang, Solving a vehicle routing problem with time windows by a decomposition technique and a genetic algorithm, *Expert Systems With Applications*, accepted. (NSC 89-2213-E-324-011) (SCI)

(B)研討會論文:

- C.-B. Cheng and C.-H. Wu, 1996, solving the FMS part-tool grouping problem using Lagrangian relaxation approach, Proceedings of the 5th Industrial Engineering Research Conference, May 18-20, Minneapolis.
- C.-H. Wu and C.-B. Cheng, 1996, Solving part-tool matrix clustering problems using Lagrangian relaxation algorithms, Proceedings of the 1st Asia-Pacific Decision Sciences Institute Conference, Jun. 21-22, Hong Kong.
- C.-B. Cheng and E.S. Lee, 1997, Radial basis function network in fuzzy regression analysis, Proceedings of the 5th European Congress on Intelligent Techniques and Soft Computing, Sep.8-12, Aachen, Germany.
- C.-B. Cheng, 1999, Techniques and applications of two fuzzy regression tools-fuzzy radial basis function network and fuzzy adaptive network, Proceeding of the 1999 Pacific Asia Conference on Expert Systems, Feb. 11-12, Los Angeles.
- C.-B. Cheng and E.S. Lee, 1999, Neuro-fuzzy network in non-parametric regression – an example in welding quality control, Proceedings of the 8th

International Fuzzy Systems Association World Congress, Aug. 16-20,
Taipei, Taiwan.

- C.-B. Cheng, 2001, Fuzzy regression analysis by a fuzzy neural network and its application to dual response optimization, Proceedings of the Joint 9th IFSA World Congress and 20th NAFIPS International Conference, Jul. 25-28, Vancouver, Canada, 2681-2686.
- 王耿彬、鄭啟斌，民 90，應用遺傳演算法於物流中心之派車路線規劃，中國工業工程學會九十年年度年會暨學術研討會論文集，民國 90 年 12 月 8 日，高雄(NSC89-2213-E-324-011)
- C.-B. Cheng, 2002, Process optimization via a neuro-fuzzy system, 第七屆人工智慧與應用研討會論文集，民國 91 年 11 月 15 日，台中(NSC 90-2218-E-324-004)
- C.-B. Cheng, 2003, Some notes on the nearest-neighbor retrieval in case-based reasoning, Proceedings of the Fourth International Conference on Operations and Quantitative Management, Jan. 2-5, Tainan, Taiwan.
- C.-B. Cheng, 2003, Fuzzy number construction based on a grading process, Proceedings of International Conference on Fuzzy Information Processing: Theories and Applications, Mar. 1-4, Beijing, China, 113-116.
- C.-B. Cheng, 2003, Fuzzy process control based on fuzzy regression and possibility measures, Proceedings of the 22nd International Conference of the North American Fuzzy Information Processing Society, Jul. 24-26, Chicago, 127-131. (EI)
- C.-B. Cheng, 2003, Combining derivative-based method and simulated annealing algorithm to solve an FMS cell formation problem, 中國工業工程學會九十二年度年會暨學術研討會論文集，民國 92 年 12 月 6 日，彰化
- C.-B. Cheng, 2004, Fuzzy numbers in group opinion aggregation and its applications to a quality function deployment problem, Proceedings of the 10th International Conference on Cybernetics and Information Technologies, Systems and Applications, Jul. 21-25, Orlando, 43-48.
- C.-L. Chen, C.-J. Fu, and C.-B. Cheng, 2004, Financial distress prediction by a radial basis function network, Proceedings of the 10th International Conference on Cybernetics and Information Technologies, Systems and Applications, Jul. 21-25, Orlando, 32-37.
- 傅鍾仁、鄭啟斌、陳可桓，民 93，應用網路名義群體技術於平衡計分卡之績效指標訂定，中國工業工程學會九十三年年度年會暨學術研討會論文集，民國 93 年 12 月 18 日，台南(NSC92-2213-E-324-017)
- C.-B. Cheng, C.-C. H. Chan, and C.-C. Lin, 2005, Buyer-supplier negotiation by

fuzzy logic based agents, Proceedings of the third International Conference on Information Technology and Applications, Jul. 4-7, Sydney, Australia, 137-142.

Y.-R. Syau, C.-B. Cheng, and H. Y. Chen, 2005, Fuzzy radial basis function network in financial credit rating, Proceedings of the Third International Conference on Computational Intelligence, Robotics and Autonomous Systems, Dec. 13-16, Singapore.

Y.-R. Syau, C.-B. Cheng, and C.-J. Fu, 2006, A neuro-fuzzy approach for equity valuation based on fundamental analysis, Proceedings of the International Conference of the North American Fuzzy Information Processing Society (NAFIPS 2006), Jun. 3-6, Montreal, Canada. (EI)

C.-B. Cheng and Z.-Y. Liu, 2006, Fuzzy inventory control of a supply chain, Proceedings of the 10th WSEAS International Conference on Systems, Jul. 10-12, Athens, Greece.

周盈宏、鄭啟斌，民 95，應用代理人於外包商選擇與訂單追蹤系統，第十二屆資訊管理暨實務研討會論文集，民國 95 年 12 月 9 日，虎尾 (NSC94-2213-E-032-032)

曾榮宗、鄭啟斌、蕭育如，民 95，應用支向量機於財務危機預測，第十二屆資訊管理暨實務研討會論文集，民國 95 年 12 月 9 日，虎尾

C.-J. Cheng and C.-B. Cheng, 2007, Robust control for uncertain cellular neural networks with time-varying delays and input nonlinearity, Proceedings of 2007 CACS International Automatic Control Conference, Nov. 9-11, Taichung, Taiwan

C.-B. Cheng, Y.-R. Syau, and R.-T. Tzeng, Solving a seal-bid reverse auction by fuzzy multiple objective programming, Proceedings of 2008 Information Processing and Management of Uncertainty in Knowledge-Based Systems, Jun. 22-27, Malaga, Spain

(C) 專書及專書論文

C.-B. Cheng, 1998, *Non-parametric fuzzy regression and its applications*, Ph.D. dissertation, Department of Industrial and Manufacturing Systems Engineering, Kansas State University, Manhattan, Kansas.

E. S. Lee and C.-B. Cheng, 2003, Fuzzy regression analysis via neuro-fuzzy network and its application to system modeling and optimization, contributed chapter in *Computational Mathematics, Modeling and Algorithms* (J.C. Misra, ed.), Narosa Publishing House, New Delhi, India. (ISBN 81-7319-490-4)

H.-W. Chu, J. Aguilar, J. Ferrer, Y.-R. Syau, and C.-B. Cheng, 2004, Proceedings of CITSA 2004, V. III: Communications, Information and

(D) 技術報告

鄭啟斌、林宏達，民 89，「低溫冷凍物流中心之車輛配送排程規劃」結案報告，計畫編號：NSC 89-2213-E-324-011，國科會

鄭啟斌、林宏達，民 90，「產品設計最佳化：應用模糊迴歸分析與模糊多目標規劃於品質機能展開」結案報告，計畫編號：NSC 89-2213-E-324-048，國科會

鄭啟斌、林宏達，民 91，「模糊迴歸分析與雙反應曲面最佳化方法於品質工程之應用」結案報告，計畫編號：NSC 90-2218-E-324-004，國科會

鄭啟斌、傅鍾仁，民 92，「應用系統動態模擬與多層規劃於最適獎勵計畫之設計」結案報告，計畫編號：NSC91-2213-E-324-021，國科會

鄭啟斌、傅鍾仁，民 93，「應用網路群體決策方法於企業內部平衡計分卡之展開」結案報告，計畫編號：NSC92-2213-E-324-017，國科會

鄭啟斌、詹智強，民 94，「應用智慧型代理人與多層分散規劃於供應鍊中最佳存貨政策之制定(1/2)」期中報告，計畫編號：NSC93-2213-E-324-014，國科會

鄭啟斌、詹智強，民 95，「應用智慧型代理人與多層分散規劃於供應鍊中最佳存貨政策之制定(2/2)」結案報告，計畫編號：NSC94-2213-E-032-032，國科會

鄭啟斌、陳慶隆，民 96，「結合類神經網路與統計方法制定財務危機預測模型之學習演算法(1/2)」期中報告，計畫編號：NSC95-2221-E-032-070-MY2，國科會

鄭啟斌、陳慶隆，民 97，「結合類神經網路與統計方法制定財務危機預測模型之學習演算法(1/2)」結案報告，計畫編號：NSC95-2221-E-032-070-MY2，國科會

鄭啟斌、蕭育如，民 97，「應用自動拍賣機制與模糊數學規劃於供應鍊之動態組成問題(1/3)」期中報告，計畫編號：NSC96-2416-H-032-004-MY3，國科會