姓名：張瑞芬

(A) 期刊論文 (Refereed Journal Papers)

1. Trappey, A. J. C., Liu, C. R., and Chang, T.-C., 1988, "Fuzzy non-linear programming: Theory and application in manufacturing," *International Journal of Production Research*, Vol. 26, No. 5, pp. 975-985. (SCI)

2. Trappey, A. J. C., and Liu, C. R., 1990, "A literature survey of fixture design automation," *International Journal of Advanced Manufacturing Technology*, Vol. 5, pp. 240-255. (SCI)

3. Trappey, A. J. C., and Liu, C. R., 1992, "An automatic workholding verification system," *Robotics and CIM*, Vol. 9, No. 4, pp. 321-326. (SCI)

4. Trappey, A. J. C*., Liu, C. R., and Matrubhutam, S., 1992, "An integrated system shell concept for design and planning, " *Journal of Design and Manufacturing*, Vol. 2, pp. 1-17. (SCI)

5. Trappey, A. J. C., and Liu, C. R., 1993, "Automated fixture configuration using projective geometry approach," *International Journal of Advanced Manufacturing Technology*, Vol. 8, pp. 297-304. (SCI)

6. Huang, S.-H., and Trappey, A. J. C., 1992, "The integration of modular fixture database, fixturing knowledge base and 3-D fixture planning interface," *Computers & Industrial Engineering*, Vol. 23, No. 4, pp. 381-385. (SCI)

7. Downs, K.A., and Trappey, A. J. C., 1992, "A sequential block approach to the design of a cost estimation system," *Computers & Industrial Engineering*, Vol. 23, No. 4, pp. 423-426. (SCI)

8. Trappey, C. V., Trappey, A. J. C., Feinberg, R., 1993, "A knowledge base system for predicting merchandise investment returns," *Applied Artificial Intelligence* - An International Journal , Vol. 7, pp. 207-221. (SCI)

9. Trappey, C. V., and Trappey, A. J. C., 1993, "Planning merchandise investments using fuzzy optimization," *Journal of Intelligent and Fuzzy Systems*, Vol. 1, No. 3, 189-197. (SCI)

10. Trappey, A. J. C.*, Matrubhutam, S., 1993, "Fixture configuration using projective geometry," *Journal of Manufacturing Systems*, Vol. 12, No. 6, pp. 486-495. (SCI)

11. Trappey, A. J. C.*, and Lai, C.-S., 1995, "A data representation scheme for sheetmetal parts: Expressing manufacturing features and tolerance requirements," *Journal of Manufacturing Systems*, Vol. 14, No. 6, pp. 393-405. (SCI)

12. Trappey, C.V., Trappey, A.J., Hwang, S.J., 1995, "Computer aided quality function deployment for retail automation," *Journal of Management and Systems*, Vol. 2, No. 1, pp. 31-49 (in Chinese).

13. Trappey, A.J.C.*, Hou, J.L., Yeh, D.C., 1996, "Development of a computer aided modular fixture planning system," *Journal of the Chinese Institute of Industrial Engineers*, Vol. 13,

1

No. 4, pp. 371-379 (in Chinese). **[Received the 1997 outstanding research paper awards from the <u>Chinese Institute of Engineers</u> and the <u>Chinese Institute of Industrial Engineers</u>.] (EI)**

14. Trappey, C. V.*, Trappey, A. J. C., and Hwang, S.-J., 1996, "A computerized quality function deployment approach for retail services," *Computers & Industrial Engineering*, Vol. 30, No. 4, pp. 611-622. (SCI)

15. Trappey, A. J. C.*, Peng, T.-K., Lin, H.-D., 1996, "An object-oriented bill of materials system for dynamic product management," *Journal of Intelligent Manufacturing*, Vol. 7, pp. 365-371. (SCI)

16. Peng, T.-K., and Trappey, A. J. C.*, 1997, "CAD-integrated engineering data management system for spring design," *Robotics and Computer-integrated Manufacturing*, Vol. 12, No. 3, pp. 271-281. (SCI)

17. Hou, J.L., and Trappey, A.J.C., 1997, "A methodology for applying V-blocks and clamps to non-prismatic workpart fixture," *International Journal of Computer Application in Technology* Vol. 10, Nos. 3/4, .pp. 152-169. (EI)

18. Hou, J.L., and Trappey, A.J.C., 1997, "The illustration of systematic fixture design approach for automotive part machining," *Journal of the Chinese Society of Mechanical Engineers* (in English), Vol. 18, No. 6, pp. 499-511. (EI)

19. Trappey, A.J.C.*, Liu, T.-H., and, Hwang, C.-T., 1997, "Using EXPRESS data modeling technique for PCB assembly analysis," *Computers in Industry*, Vol. 34, pp. 111-123. (SCI)

20. Liu, T.-H., Trappey, A. J. C., and Chan, F.-W., 1997, "A scheduling system for IC packaging industry using STEP enabling technology," *IEEE Trans. on Component, Packaging, and Manufacturing Technology, Part C*, Vol. 20, No. 4, pp. 256-267. (SCI)

21. Peng, T.-K. and Trappey, A.J.C., 1997, "Developing a STEP-based engineering data management system," *Journal of Management and Systems*, Vol. 4, No. 2, pp. 91-126.

22. Peng, T.-K. and Trappey, A.J.C.*, 1998, "A step toward STEP-compatible engineering data management - the data models of product structure and engineering changes," *Robotics and Computer-integrated Manufacturing*, Vol. 14, No. 2, pp. 89-109. (SCI)

23. Liu, T.-H., Trappey, A.J.C., and King, Z.-J., 1998, "A computerized calibration service supporting system (I): system design and development," *International Journal of Computer Applications in Technology*, Vol. 12, No. 1, pp. 46-59. (EI)

24. Trappey, C.V., and Trappey, A.J.C., 1998, "A chain-store marketing information system: realizing internet-based enterprise integration and electronic commerce," *Industrial Management and Data System*, 98/5, pp. 205-213. **[Received Highly Commended Award, Literati Club, MCB University Press.] (SCI)**

25. Tu, C.-L., Trappey, A.J.C., 1998, "Decision making of mortgage loan approval using artificial neural network approach," *Journal of The Chinese Fuzzy Systems Association* (Taiwan), Vol. 4, No. 1, pp. 31-44.

26. Trappey, C.V., and Trappey, A.J.C., 1998, "Internet-based retail information integration and electronic commerce: Using object oriented principles," *Communications of the ICISA*, Fall, pp. 14-24.

27. Liu, T.-H., Trappey, A.J.C., and Shyu, J.-B., 1999, "ISO10303-based PCB assembly data model for assembly analysis," *Concurrent Engineering: Research and Applications*, Vol. 7, No. 2, June, pp. 159-176. (SCI)

28. Trappey, C.V., and Trappey, A.J.C., Gulledge, T.R., and Sommer, R., 1999, "Transferring information technology to the defense industry supply chains: The role of electronic commerce resource centers," *Journal of Management Information System* (Taiwan), Vol. 6, No. 1, pp.181-197. (TSSCI)

29. Hou, J.-L., and Trappey, A.J.C., 1999, "On the development of computer-aided hydraulic fixture selection system," *Journal of the Chinese Institute of Industrial Engineers*, Vol. 16, No. 1, pp. 39-61. (EI)

30. Trappey, A.J.C., and Chang, C.R., 1999, "ISO10303-compliant computer-aided wheel-rim design system – the framework and data model," *International Journal of Production Research (IJPR)*, Vol. 38, No. 6, pp. 1325-1338. (SCI)

31. Yao, Y.H., and Trappey, A.J.C.*, 2000, "ISO10303 compatible data model and its applications for PC configuration management," *Robotics and CIM*, Vol. 16, No. 5, pp. 339-352. (SCI)

32. Peng, T.K., and Trappey, A.J.C.*, 2000, "以 STEP 為基礎建構整合性產品資料管理雛形系統," *Journal of Chinese Institute of Industrial Engineers*, Vol. 17, No. 1, pp. 87-101. (EI)

33. Trappey, C.V.*, and Trappey, A.J.C., 2001, "Electronic commerce in greater China," *Industrial Management and Data System*, Vol. 101, No. 5, pp. 201-209. (SCI)

34. Trappey, C.V., Trappey, A.J.C*., and Chang, Y.-P., 2000, "Internet Storefront Reengineering Using an Electronic Schema Approach," *Human Systems Management*, Vol. 19, pp. 295-303. (EI)

35. Liu, T.-H.*, Trappey, A.J.C., and Lin, C.-S., 2000, "Development of SDAI-based common access interface for object-oriented DBMS," *The International Journal of Concurrent Engineering: Research & Applications (CERA)*, Vol. 8, No. 3, pp. 230-241. (SCI)

36. Trappey, A.J.C., Wang, H.-C., and Hou, J.-L., 2000, "Enable e-business applications by integrating ERP with Internet-based EDI," *The International Journal of Agile Manufacturing* (Accepted, forthcoming).

37. Hou, J.L.*, and Trappey, A.J.C., 2001, "A computer-aided fixture design system for comprehensive modular fixtures," *International Journal of Production Research*, Vol. 39, No. 16, pp. 3703-3725. (SCI)

38. Hou, J.L.*, Trappey, A.J.C., and Z.-X. You, 2001, "Development of product data management system considering build-to-order PC configuration management," *Journal of the Chinese Society of Mechanical Engineers* (in English), Vol. 22, No. 5, pp. 409-420. (EI)

39. Trappey, A.J.C.*, and Ho, P.-S., 2002, "Human resource assignment system for distribution centers," *Industrial Management and Data Systems*, Vol. 102, No. 2, pp. 64-72. (SCI)

40. Hou, J.L., Trappey, C.V., and Trappey, A.J.C., 2003, "Enabling a centralized enterprise knowledge management hub for the high technology value chain," *International Journal of Service Technology and Management,* Vol. 4, No. 4, pp. 424-441. (ABI/INFORM Global)

41. Hou, J.L.*, Trappey, C.V., and Trappey, A.J.C., 2002, "A web-based document server for knowledge management in a supply chain," International Journal of *Agile Manufacturing,* Vol. 5, No. 1, pp. 77-88.

42. Yao, Y.-H., Trappey, A.J.C.*, and Ho, P.-S., 2003, "XML-based ISO9000 electronic document management system," *Robotics and CIM*, Vol. 19, No. 4, pp. 355-370. (SCI)

43. Yao, Y.H., and Trappey, A.J.C.*, 2003, "Using ISO10303 data standard and XML standard web technology to enable ISO9000 document management," *International Journal of Computer Applications in Technology*, Vol. 18, No. 1-4, pp. 117-132. (EI)

44. Huang, C.-J., Trappey, A.J.C.*, and Yao, Y.-H., 2003, "Design and develop WfMC-based modularized network collaborative design system (WfMC為基之模組化網路協同設計系統分析與建置)," *Journal of Chinese Institute of Industrial Engineers*, Vol. 20, No. 4, pp. 422-434. (EI)

45. Huang, C.-J., Trappey, A.J.C.*, Yao, Y.-H., Yeh, S.-C., and Cheng, Y.-H., 2003, "Adopting contact center approach to collaborative product development - using TFT-LCD design chain as case study," *International Journal of E-Business Management*, Vol. 1, No. 3, pp. 120-128. (INSPEC)

46. Trappey, A.J.C.*, Trappey, C.V., Hou, J.-L., and Chen, B.J.G., 2004, "Mobile agent technology and application for online global logistic services," *Industrial Management and Data System*, Vol. 104, No. 2, pp. 169-183. (SCI)

47. Ho, P.-S., Trappey, A.J.C.*, and Trappey, C.V., 2004, "Data interchange services: use of XML hub approach for the aerospace supply chain," *International Journal of Technology Management*, Vol. 28, No. 2, pp. 227-242. (SCI)

48. Trappey, A.J.C.*, and Trappey, C.V., 2004, "Global content management services for product providers and purchasers," *Computers in Industry*, Vol. 53, pp. 39-58. (SCI)

49. Hsu, F.-C., Trappey, A.J.C., Hou, J.-L.*, Trappey, C.V., and Liu, S.-J., 2004, "Develop a multi-channel legal knowledge service center with knowledge mining capability," *International Journal of E-Business Management*, Vol. 2, No. 2, pp. 92-99. (INSPEC)

50. Trappey, A.J.C., and Ho, P.-S., 2005, "Design and develop an e-exchange platform using XML trade hub approach for global supply chain integration," *Journal of Management Information System*, Vol. 12, No. 3, pp. 67-86. (TSSCI)

51. Yao, Y.-H., Lin, Gilbert Y.P., Trappey, A.J.C., 2005, "Using knowledge-based intelligent reasoning to support dynamic equipment diagnosis and maintenance," *International Journal of Enterprise Information Systems*, Vol. 2, No. 1, pp. 17-29.

52. Hsu, F.-C.*, Trappey, A.J.C., Trappey, C.V., Hou, J.-L., and Liu, S.-J., 2006, "Technology and knowledge document cluster analysis for enterprise R&D strategic planning," *International Journal of Technology Management*, Vol. 36, No. 4, pp. 336-353. (SCI/SSCI)

53. Trappey, A.J.C.*, Trappey, C.V., Lin, F.T.L., 2006, "Automated silicon intellectual property trade using mobile agent technology," *Robotics and CIM*, Vol. 22 (2006), pp. 189-202. (SCI)

54. Trappey, A.J.C., and Lu, T.-H., 2006, "Process reengineering of collaborative mold design and manufacturing – a system engineering evaluation approach," *Material Science Forum – Progress on Advances Manufacture for Micro/Nano Technology 2006*, pp. 619-624. (SCI)

55. Chiang, T.A., Trappey, A.J.C.*, Ku, C.C., 2006, "Using a knowledge-based intelligent system to support dynamic design reasoning for a collaborative design community", *International Journal of Advanced Manufacturing Technology,* Vol. 31, No. 5, pp. 421-433. (SCI)

56. Trappey, A.J.C.*, Hsu, F.-C., Trappey, C.V., and Lin, C.-I., 2006, "Development of a patent document classification and search platform using a back-propagation network," *Expert Systems with Applications*, Vol. 31, pp. 755-765. (SCI)

57. Trappey, C.V.*, Shih, T.Y., and Trappey, A.J.C., 2007, "Modeling international investment decisions for financial holding companies," *European Journal of Operational Research*, Vol. 180 (2007), pp. 800-814. (SCI)

58. Trappey, A.J.C., Trappey, C.V.*, and Hsieh, E.C.H., 2006, "Automatic categorization of patent knowledge for R&D knowledge self-organization," *Journal of Management*, Vol. 23, No. 4, pp. 413-424. (TSSCI)

59. Huang, C.-J.*, Trappey, A.J.C., and Yao, Y.-H., 2006, "Developing an agent-based workflow management system for collaborative product design," *Industrial Management and Data System*, Vol. 106, No. 5, pp. 680-699. (SCI)

60. Trappey, A.J.C., Chiang, T.-A.*, and Ke, S., 2006, "Developing an intelligent workflow management system to manage project processes with dynamic resource control," *Journal of Chinese Institute of Industrial Engineers*, Vol. 23, No. 6, pp. 484-493. (TSSCI/EI) **[Received the 2007 outstanding research paper awards from the <u>Chinese Institute of Industrial Engineers</u>.]**

61. Chiang, T.-A., and Trappey, A.J.C.*, 2007, "Development of value chain collaborative model for product lifecycle management and its LCD industry adoption," *International Journal of Production Economics*, Vol. 109, No. 1-2, pp. 90-104. (SCI)

62. Trappey, A.J.C.*, and Hsiao, D.W., 2008, "Applying collaborative design and modularized automotive assemblies for automotive ODM supply chain," *Computers in Industry*, Vol. 59, pp. 277-287. (SCI)

63. Trappey, C.V., Trappey, A.J.C.*, and Lin, F.T.L., 2007, "Developing silicon intellectual property E-trade mechanisms for system on chip design and integration," *International Journal of Computer Integrated Manufacturing (IJCIM)*, Vol. 20, No. 5, pp. 423-435. (SCI)

64. Trappey, C.V., Trappey, A.J.C.*, Lin, G.Y.P., Liu, C.S., and Lee, W.T., 2007, "Business and logistic hub integration to facilitate global supply chain linkage," *Journal of Engineering Manufacture, Part B,* Vol. 221, pp. 1221-1233. (SCI)

65. Trappey, A.J.C.*, Lin, G.Y.P., Ku, C.C., and Ho, P.-S., 2007, "Design and analysis of rule-based knowledge system supporting intelligent dispatching and its application in TFT-LCD industry," *International Journal of Advanced Manufacturing Technology*, Vol. 35, No. 4, pp. 385-393. (SCI)

66. Trappey, A.J.C.*, and Trappey, C.V., 2008, "An R&D knowledge management method for patent document summarization," *Industrial Management and Data System*, Vol. 108, No. 2, pp. 245-257. (SCI)

67. Trappey, C.V., Trappey, A.J.C.*, Liu, C.S., Lee, W.T., and Hung, Y.L., 2008, "The design and evaluation of a supply chain logistic hub for automobile and parts distribution," *Materials Science Forum*, Vol. 594, pp. 119-131.

68. Hsiao, D.W.*, Trappey, A.J.C., Ma, L., Fan, Y.-C., and Mao, Y.-C., 2008, "Agent-based integrated and collaborative engineering asset management," *Materials Science Forum*, Vol. 594, pp. 481-493.

69. Wognum, N., and Trappey, A.J.C., 2008, "PLM challenges," *Advanced Engineering Informatics*, Vol. 22 (2008), pp. 419-420. (SCI)

70. Trappey, A.J.C., and Chiang, T.-A.*, 2008, "A DEA benchmarking methodology for project planning and management of new product development under decentralized profit-center business model," *Advanced Engineering Informatics*, Vol. 22 (2008), pp. 438-444. (SCI)

71. Chiang, T.-A., Trappey, A.J.C., Chen, W.-C., 2008, "Benchmark new product development processes using DEA-based modularized approach," *Issues in Information Systems*, Vol. IX, No. 2, pp. 153-162.

72. Trappey, A.J.C., Taghaboni-Dutta, F., and Trappey, C.V., 2008, "A framework for a green product lifecycle management system," *Issues in Information Systems*, Vol. IX, No. 2, pp. 123-131.

73. Trappey, C.V., Trappey, A.J.C.*, Chiang, T.-A., and Kuo, J.-Y., 2009, "A strategic product portfolio management methodology considering multiple objectives and enterprise R&D resource constraints," *The International Journal of Technology Management*, Vol. 48, No. 2, pp. 258-276. (SCI/SSCI)

74. Trappey, A.J.C., Lu, T.-H.*, and Fu, L.-D., 2009, "Development of an intelligent agent system for collaborative mold production with RFID technology," *Robotics and CIM*, Vol. 25, No. 1, pp. 42-56. (SCI, 2009/2)

75. Hsiao, D.W., Trappey, A.J.C.*, Ma, L., Ho, P.-S., 2009, "An integrated platform of collaborative project management and silicon intellectual property management for IC design industry," *Information Sciences*, Vol. 179, Issue 15, pp. 2576-2590. (SCI)

76. Trappey, C.V., Trappey, A.J.C.*, Huang, C.-J., and Ku, C.C., 2009, "The design of a JADE-based autonomous workflow management system for collaborative SoC design," *Expert Systems with Applications*, Vol. 36, No. 2, Part 2, pp. 2659-2669. (SCI)

77. Taghaboni-Dutta, F.*, Trappey, A.J.C., Trappey, C.V., and Wu, H.-Y., 2009, "An exploratory RFID patent analysis," *Management Research News*, Vol. 32, No.12, pp. 1163-1176.

78. Trappey, A.J.C.*, Trappey, C.V., Hsu, F.-C., and Hsiao, D.W., 2009, "A fuzzy ontological knowledge document clustering methodology," *IEEE Transactions on Systems, Man, Cybernetics: Part B*, Vol. 39, No. 3, June 2009, pp. 806-814. (SCI)

79. Trappey, C.V., Trappey, A.J.C.*, Chang, A.-C., Huang, A.Y.L., 2009, "The analysis of customer service choices and promotion preferences using hierarchical clustering," *Journal of Chinese Institute of Industrial Engineers*, Vol. 26, No. 5 (September 2009), pp. 367-376. (TSSCI)

80. Trappey, A.J.C., Trappey, C.V.*, Wu, C.-Y., 2009, "Automatic patent document summarization for collaborative knowledge systems and services," *Journal of Systems Science and Systems Engineering*, Vol. 18, No. 1, pp. 71-94. (SCI)

＊以下為最近五年內發表之期刊論著＊

81. Trappey, C.V., Trappey, A.J.C.*, and Wu, C.-Y. (Squall), 2010, "Clustering patents using non-exhaustive overlaps," *Journal of Systems Science and Systems Engineering*, Vol. 19, No. 2, pp. 162-181. (SCI)

82. Trappey, A.J.C.*, and Trappey, C.V., 2010, "Advances in aligning knowledge systems, improving business logistics, driving innovation and adapting customer centric services," *Expert Systems with Applications*, Vol. 37 (2010), pp. 7297-7298. (SCI)

83. Taghaboni-Dutta, F.*, Trappey, A.J.C., and Trappey, C.V., 2010, "An XML based supply chain integration hub for green product lifecycle management," *Expert Systems with Applications*, Vol. 37 (2010), pp. 7319-7328. (SCI)

84. Trappey, A.J.C., Trappey, C.V.*, Wu, Chang-Ru, 2010, "Genetic algorithm dynamic performance evaluation for RFID reverse logistic management," *Expert Systems with Applications*, Vol. 37, pp. 7329–7335. (SCI)

85. Trappey, C.V.*, Trappey, A.J.C., Chang, A.-C., Huang, A.Y.L, 2010, "Clustering analysis prioritization of automobile logistics services," *Industrial Management and Data System*, Vol. 110, No. 5, pp. 731-743. (SCI)

86. Trappey, A.J.C.*, Hsiao, D.W., Ma, L., 2011, "Maintenance chain integration using petri-net enabled multiagent system modeling and implementation approach," *IEEE Trans on Systems, Man, and Cybernetics - Part C,* Vol. 41, No. 3, pp. 306-315. (SCI)

87. Trappey, C.V., Wu, H.-Y., Taghaboni-Dutta, F.*, Trappey, A.J.C., 2011, "Using patent data for technology forecasting: China RFID patent analysis," *Advanced Engineering Informatics*, Vol. 25, pp. 53-64. (SCI)

88. Trappey, A.J.C. and Wognum, P.M, 2011, "Special issue on RFID and sustainable value chains," *Advanced Engineering Informatics*, Vol. 25, pp. 2-3. (SCI)

89. Trappey, C.V., Lin, G.Y.P., Trappey, A.J.C.*, Liu, C.S. and Lee, W.T., 2011, "Deriving industrial logistics hub reference models for manufacturing based economies," *Expert Systems with Applications*, Vol. 38, No. 2, pp. 1223-1232. (SCI)

90. Trappey, A.J.C., Ou, Jerry J.R.*, Lin, G.Y.P., and Chen, M.-Y., 2011, "An eco- and inno-product design system applying integrated and intelligent LCA, QFDE, and TRIZ methodology," *Journal of Systems Science and Systems Engineering,* Vol. 20, No. 4, pp.443-459. (SCI)

91. Trappey, A.J.C., Sun, Y.*, Trappey, C.V., and Ma, L., 2011, "Re-engineering transformer maintenance processes to improve customized service delivery," *Journal of Systems Science and Systems Engineering*, Vol. 20, No. 3, pp.323-345. (SCI)

92. Trappey, A.J.C., Wognum, P.M, and Trappey, C.V., 2011, "Special issue editorial on mass customization and sustainable value systems," *Journal of Systems Science and Systems Engineering*, Vol. 20, No. 3, pp.257-259. (SCI)

93. Chiang, T.-A., Wu, C.-Y., Trappey, C.V., Trappey, A.J.C.*, 2011, "An intelligent system for automated binary knowledge document classification and content analysis," *Journal of Universal Computer Science*, Vol. 17, No. 14 (2011), pp.1991-2008. (SCI)

94. Trappey, A.J.C., Trappey, C.V.*, Wu, C.-Y., Lin, C.-W., 2012, "A patent quality analysis for innovative technology and product development," *Advanced Engineering Informatics* Vol. 26, No. 1, pp. 26-34. (SCI)

95. Trappey, A.J.C., and Wognum, P.M., 2012, "Network and supply chain system integration for mass customization and sustainable behavior," *Advanced Engineering Informatics,* Vol. 26, No. 1, pp. 3-4. (SCI)

96. Trappey, A.J.C.*, Trappey, C.V., Lin, G.Y.P. and Chang, Y.-S., 2012, "The analysis of renewable energy policies for the Taiwan Penghu island administrative region," *Renewable and Sustainable Energy Reviews,* Vol. 16, No. 1, pp. 958-965. (SCI)

97. Trappey, A.J.C., Trappey, C., Hsiao, C.T., Ou, J.J.R., Li, S.J.*, Chen, K.W.P., 2012, "An evaluation model for low carbon island policy: The case of Taiwan's green transportation policy," *Energy Policy,* Vol. 45, pp. 510-515. (SCI)

98. Trappey, A.J.C., Trappey, C.V.*, Hsiao, C.-T., Ou, Jerry J.-R., Chang, C.-T., 2012, "System dynamics modelling of product carbon footprint life cycles for collaborative green supply chains," *International Journal of Computer Integrated Manufacturing,* Vol. 25, No. 10, pp. 934-945. (SCI)

99. Trappey, A.J.C., Trappey, C.V.*, Chang, A.-C., Lee, F.-L., Hsieh, H.-C. and Chao, M.-H., 2012, "Promoting and positioning entertainment artists using clustering and classification approaches," *International Journal of Electronic Business Management,* Vol. 10, No. 4, pp. 274-285 (EI/ABI INFORM Global).

100. Trappey, A.J.C.*, Trappey, C.V., Sun, Y., Ma, L., and Chen, K.-J., 2013, "An intelligent transformer maintenance system with real-time life assessment condition monitoring," *The Journal of the Chinese Society of Mechanical Engineers,* Vol. 34, No. 6, pp. 539-548. (SCI)

101. Trappey, A.J.C.*, Trappey, C.V., Chiang, T.-A., Huang, Y.-H., 2013, "Ontology-based neural network for patent knowledge management in design collaboration," *International Journal of Production Research*, Vol. 51, No. 7, pp.1992–2005. (SCI)

102. Trappey, C.V., Trappey, A.J.C.,*, Lin, G.Y.P., Lee, W.-T., Yang, T.-H., 2013, "SETZ logistics models and system framework for manufacturing and exporting large engineering assets," *Journal of Systems and Software*, Vol. 86, pp. 1725-1976. (SCI)

103. Trappey, A.J.C., Trappey, C.V.*, and Ni, W.-C., 2013, "A multi-agent collaborative maintenance platform applying game theory negotiation strategies," *Journal of Intelligent Manufacturing,* Vol. 24, No. 3, pp. 613-623. (SCI)

104. Trappey, A.J.C., 2013, "Advanced analyses of technology innovations, patents, and intellectual property," *International Journal of Automation and Smart Technology*, Vol. 3, No. 3, pp.137–138.

105. Trappey, A.J.C., Wang, Y-H, Trappey, C.V., Wu, C-Y *, Lin, T-H, 2013, "Ontology-based patent licensing and litigation strategic knowledge system for the light emitting diode industry," *International Journal of Automation and Smart Technology*, Vol. 3, No. 3, pp.155–167.

106. Trappey, A.J.C.*, Trappey, C.V., Liu, H.Y., Lin, L-C, Ou, Jerry J.-R., 2013, "A hierarchical cost learning model for developing wind energy infrastructures," *International Journal of Production Economics*, Vol. 146, No. 2, pp.386–391. (SCI)

107. Trappey, A.J.C.*, Trappey, C.V., Wu, C-Y, Fan, C-Y, Lin, Y-L, 2013, "Intelligent patent recommendation system for innovative design collaboration," *Journal of Network and Computer Applications,* Vol. 36, No. 6, pp. 1441–1450. (SCI)

108. Lu, T.-P., Trappey, A.J.C., Chen, Y.-K.*, Chang, Y.-D., 2013, "Collaborative design and analysis of supply chain network management key processes model," *Journal of Network and Computer Applications*, Vol. 36, No. 6, pp. 1503–1511. (SCI).

109. Trappey, A.J.C., and Wognum, P.M., 2013, "Advanced knowledge engineering related to innovation, intellectual property and patent analysis," *Advanced Engineering Informatics,* Vol. 27, No. 3, pp. 315-316 (SCI).

110. Trappey, C.V., Wang, T.-M.*, Hoang, S., Trappey, A.J.C., 2013, "Constructing a dental implant ontology for domain specific clustering and life span analysis," *Advanced Engineering Informatics*, Vol. 27, No. 3, pp. 346-357. (SCI)

111. Trappey, A.J.C.*, Trappey, C.V., Liu, H.-Y. (Penny), 2013, "Using a small-island pilot plant approach to analyze low-carbon emission policies," *Carbon Management*, Vol. 4, No. 3, pp. 257-260. (SCI)

112. Lee, C-H, Wang, Y-H*, Trappey, A.J.C., Yang, S-H, 2014, "Applying geo-social networking and the theory of inventive problem-solving in service innovation and evaluation," *Journal of Industrial and Production Engineering*, Vol. 31, No. 2, pp. 95-107. (EI/TSSCI)

113. 吳俊逸*、張瑞芬、方品軒、林啟瑞，2014，"以本體論專利探勘技術解析全球離岸風力發電關鍵技術之智財發展趨勢"，臺灣能源期刊，第一卷，第二期，第191-211頁。

114. 蕭志同*、張瑞芬、鐘宛芬、張力元、歐嘉瑞、葉豐銘，2014，"溫室氣體排放與潛在環境成本效益評估模型：以TFT-LCD產業為例"，臺灣能源期刊，第一卷，第二期，第245-257頁。

115. Trappey, C.V., Trappey, A.J.C.*, Mulaomerovic, E., 2014, "Improving the global competitiveness of retailers using a cultural analysis of in-store digital innovations," *The International Journal of Technology Management* (SCI/SSCI, Accepted).

116. Trappey, C.V., Trappey, A.J.C.*, Ma, L., Tsao, W-T., 2014, "Data driven modeling for power transformer lifespan evaluation," *Journal of Systems Science and Systems Engineering,* Vol. 23, No. 1, pp.80-93 (SCI).

117. Trappey, C.V., Trappey, A.J.C.*, Peng H.-Y., Li-Deh Lin, L.-D., Wang, T.-M., 2014, "A knowledge centric methodology for dental implant technology assessment using ontology based patent analysis and clinical meta-analysis," *Advanced Engineering Informatics*, Vol. 28 (2014), pp. 153–165 (http://dx.doi.org/10.1016/j.aei.2014.03.001, SCI).

(B) 專書 (Books - Authoring, Editing, and Translation)

1. 張瑞芬，侯建良，1998，製造工程實習，華泰文化事業公司出版 (ISBN 957-8474-938)。 [Trappey, A. J. C., and Hou, J. L., 1998, Manufacturing Engineering with Practical Experiments, Hwa-Tai Publishing Co., Taipei, Taiwan (in Chinese), ISBN 957-8474-93-8]. Trappey, A. J. C., and Hou, J. L., 1998, *Manufacturing Engineering with Practical Experiments*, Hwa-Tai Publishing Co., Taipei, Taiwan (in Chinese), ISBN 957-8474-93-8.

2. Trappey, A.J.C. (張瑞芬 總編譯), 2000, *E-Commerce – Management and Technology (電子商務 -- 管理與技術)*, Hwa-Tai Publishing Co. (華泰文化出版), Taipei, Taiwan (in Chinese), ISBN 957-609-276-0.

3. 張瑞芬等十二位合著（張瑞芬 總編輯），2001，*產品資料管理 (Product Data Management*, Chapter Book, in Chinese)，滄海書局，ISBN 957-2079-34-4.

4. Trappey, A.J.C., Trappey, C.V., and Ouyang, C. (Editors), 2001, *The Impact of the Digital Economy and Electronic Commerce on APEC Small and Medium Enterprises*, Small and Medium Enterprise Administration, Ministry of Economic Affairs, Taipei, Taiwan (in English), GPN 1009002208.

5. Trappey, A.J.C. (張瑞芬 總編審), 2003（初版），*顧客服務管理-CRM實戰理論與實務*, Hwa-Tai Publishing Co. (華泰文化出版), Taipei, Taiwan (in Chinese), ISBN 957-609-486-0.

6. Trappey, A.J.C. (張瑞芬 總編譯), 2005 （三版）,*電子商務 -- 管理與技術*，Turban等著，張瑞芬等合譯, Hwa-Tai Publishing Co. (華泰文化出版), Taipei, Taiwan (in Chinese), ISBN 957-609-555-7.

7. Trappey, A.J.C. (張瑞芬 總編譯), 2005 （三版）,*電子商務 -- 管理與技術*（精簡版），Turban等著，張瑞芬等合譯, Hwa-Tai Publishing Co. (華泰文化出版), Taipei, Taiwan (in Chinese), ISBN 957-609-577-8.

8. Trappey, A.J.C. (張瑞芬 總編審), 2007（二版），*顧客服務管理-CRM實戰理論與實務*, Hwa-Tai Publishing Co. (華泰文化出版), Taipei, Taiwan (in Chinese), ISBN 978-957-609-680-8.

9. 張瑞芬、侯建良（主編），2007, 全球運籌管理，張瑞芬、侯建良等合著，國立清華大學出版社, Hsinchu, Taiwan (in Chinese), ISBN 978-986-81812-8-1.

10. Trappey, A.J.C. (張瑞芬 總編譯), 2008 （五版）,*電子商務 -- 管理與技術*，Turban等著，張瑞芬等合譯, Hwa-Tai Publishing Co. (華泰文化出版), Taipei, Taiwan (in Chinese), ISBN 978-957-609-717-1.

11. Trappey, A.J.C. (張瑞芬 總編譯), 2010 （二版）,電子商務概論，Turban等著，張瑞芬等合譯, Hwa-Tai Publishing Co. (華泰文化出版), Taipei, Taiwan (in Chinese), ISBN 978-957-609-793-5.

12. Trappey, A.J.C. (張瑞芬 總編譯), 2012 （三版）,電子商務概論，Turban等著，張瑞芬等合譯, Hwa-Tai Publishing Co. (華泰文化出版), Taipei, Taiwan (in Chinese) , ISBN 978-957-609-863-5.

13. 張瑞芬(總編審)、張力元、吳俊逸、樊晉源 (Trappey, A.J.C., Trappey, C.V., Wu, C.-Y., Feng, C.Y.), 2012, 專利分析與智慧財產管理 - 以資訊技術與知識管理方法為手段 (Patent Analysis and Intellectual Property Management – Using Information and Knowledge Management Techniques), 華泰文化出版 (Hwa-Tai Publishing Co.), Taipei, Taiwan, ISBN 978-957-609-892-5 (in Chinese).

(C) 研討會論文 (Conference Papers)

1. Trappey, A.J.C., and Liu, C.R., 1988, "Issues of automatic fixture design in computer integrated manufacturing systems," Proceedings, IASTED International Conference, Robotics & Automation, Santa Barbara, California, pp. 149-154.

2. Trappey, A.J.C., and Liu, C.R., 1989, "An automatic workholding verification system," Proceedings, International Conference on Manufacturing Science & Technology of the Future (MSTF'89), Stockholm, Sweden, June 6-9.

3. Liu, C.R., and Trappey, A.J.C., 1989, "A structured design methodology and MetaDesigner: A system shell concept for computer aided creative design," Proceedings, ASME Design Automation Conference, Montreal, Canada, September, pp. 309-313.

4. Trappey, A.J.C., and Liu, C.R., 1990, "Automatic generation of configuration for fixturing an arbitrary workpiece using projective spatial occupancy enumeration approach," Proceedings, Symposium on Advances in Integrated Product Design and Manufacturing, ASME Winter Annual Meeting, Dallas, Texas, November 25-30, pp. 191-202.

5. Trappey, A.J.C., and Liu, C.R., 1991, "An integrated system shell concept for computer aided design and planning," Proceedings, Joint US/German Conference on New Directions for Operations Research in Manufacturing, NIST, Gaithersburg, Maryland, July 30-31, pp. 425-444.

6. Trappey, A.J.C., Gupta, P., Liu, C.R., 1993, "Using optimization model to control work-piece rigidity and deformation in work-holding to achieve precision machining," Operations Research in Production Planning and Control (Eds: Fandel, et al), Springer-Verlag Publishing Co., Berlin, Germany, pp. 138-150.

7. Trappey, C.V., Trappey, A.J.C., Feinberg, R., 1993, "Planning product assortment and production using portfolio optimization," Operations Research in Production Planning and Control (Eds: Fandel, et al), Springer-Verlag Publishing Co., Berlin, Germany, pp. 3-20.

8. Cheng, M.-C., and Trappey, A.J.C., 1992, "Finish cutting path generation of the compound surface with variable radius blending," Proceedings, The 2nd International Conference on Automation Technology, Taiwan, July 5-8, pp. 91-97.

9. Trappey, A.J.C., Matrubhutam, S., Cheng, M.-C., and Hwang, S.-J., 1993, "Variable radius blending technique in computer aided geometric design," Proceedings, 2nd Int'l Conf. & Exhibition on CIM (ICCIM'93), Singapore, September 6-10. pp. 59-68.

10. Trappey, A.J.C., Huang, S.-H., and Su, C.-S., 1993, "Methodology for location and orientation of modular fixtures," Proceedings, Intelligent Design & Manufacturing, ASME Winter Annual Meeting, New Orleans, LA, Nov. 28 - Dec. 3, PED-Vol. 64, pp. 333-342..

11. Trappey, A.J.C., Trappey, C.V., Lay, J.-S., and Hwang, S.-J., 1993, "The fuzzy merchandise portfolio model and its model management," 中華民國第一屆 FUZZY 理論與應用研討會論文集 ， 新竹清華大學 ， 82年6月25-26日， pp. 315-320.

12. Podhajsky, J.D., Trappey, A.J.C., and Lay, J.-S., 1993, "Development of a data structure for a feature-based sheet metal design and processing system," 第六屆全國自動化科技研討會論文集 , Taiwan, July 3-4, pp. 369-376.

13. 張瑞芬、蘇俊生，1993，「應用有限元素法於治夾具的受力與變形分析」，八十二年度中國工業工程師學會年會論文集，台南成功大學，82年12月5日， pp. 636-641.

14. 張力元、張瑞芬、黃順家， 1993， "An object oriented environment linking quality function deployment and product realization," 八十二年度中國工業工程師學會年會論文集 ， 台南成功大學 ， 82年12月5日， pp. 519-523.

15. Trappey, C.V., Trappey, A.J.C., and Hwang, S.J., 1994, "An object oriented QFD environment for product realization," Proceedings, International Symposium on Manufacturing Science & Technology (The First S.M. Wu Memorial Symposium), Beijing, China, July 3-5, pp. 506-510.

16. Trappey, C.V., Trappey, A.J.C., and Hwang, S.J., 1994, "A computer aided house-of-quality system for the improvement of services," Proceedings, The Third International Conference on Automation Technology, Taipei, Taiwan, R.O.C., July 6-9, Vol. 6, pp. 267-274.

17. Trappey, A.J.C., and Lin, H.-D., 1994, "A bill-of-materials system designed to provide dynamic information needs in a CIM environment," Proceedings, The Third International Conference on Automation Technology, Taipei, Taiwan, R.O.C., July 6-9, Vol. 1, pp. 169-175.

18. 張瑞芬、鍾家榮、葉大誠,1994,「電腦輔助夾具規劃與碰撞偵錯系統之開發」, 八十三年度中國工業工程師學會年會論文集,台南成功大學,83年12月17-18日, pp. 686-691.

19. 張瑞芬、吳凱文、黃麗瑩,1994,「電腦輔助設計/製造系統與材料表資料庫之即時整合」, 八十三年度中國工業工程師學會年會論文集,台南成功大學,83年12月17-18日, pp. 692-697.

20. Trappey, A.J.C., Peng, T.-K., and Lin, H.-D., 1995, "An object-oriented bill-of-materials system for dynamic product management," Proceedings, The Third International Conference on Computer Integrated Manufacturing, Singapore, July 11-14, Vol. 1, pp. 629-636.

21. Peng, T.-K., and Trappey, A.J.C., 1995, "User-friendly interface development for CAD-based engineering data management systems," Proceedings, The Sixth International Conference on Human-Computer Interaction, Tokyo, Japan, July 9-14, Vol. 1, pp. 1153-1158.

22. 張瑞芬、劉祖華、黃啟通、詹馥維,1995,「實現同步工程之STEP生產資源應用協定的發展」, 第八屆全國自動化科技研討會論文集,中原大學,84年7月11-12日, pp. 171-178.

23. 張瑞芬、連孟斌,1995,「整合性材料表系統設計—以關聯式資料結構為基礎」, 第八屆全國自動化科技研討會論文集,中原大學,84年7月11-12日, pp. 735-742.

24. Trappey, A.J.C., Su, C.-S., and Hou, J.-L., 1995, "Computer-aided fixture analysis using finite element analysis and mathematical optimization modeling," Proceedings, International Mechanical Engineering Congress and Exhibition, ASME, San Francisco, CA, USA , Nov. 12-17, MED-Vol. 2-1, pp. 777-787.

25. 黃啟通、張瑞芬、林則孟,1995,「以 STEP 為基礎的彈性製造系統刀具資料庫設計」, 中華民國工業工程學會八十四年會論文集,第一冊,中原大學,84年12月17日, pp. 378-385.

26. Trappey, A.J.C., Hwang, C.-T., and Liu, T.-H., 1996, "PCB engineering data model using STEP-compatible representation," Proceedings, Symposium on Advanced Product Data Management Supporting Product Life-Cycle Activities, MED-Vol.4, ASME International Mechanical Engineering Congress and Exhibition (IMECE), November 17-22, Atlanta, Georgia, pp. 687-698.

27. Liu, T.-H., and Trappey, A.J.C., and Chan, F.-W., 1996, "A STEP-compatible scheduling system for IC packaging industry," Proceedings, Symposium on Advanced Product Data Management Supporting Product Life-Cycle Activities, MED-Vol.4, ASME IMECE, November 17-22, Atlanta, Georgia, pp. 633-648.

28. Trappey, A.J.C., and Lien, M.-B., 1996, "An integrated bill-of-materials system developed using the relational data model," Proceedings, Automation'96, Hsinchu, Taiwan, R.O.C., July 8-11, pp. 211-219.

29. Peng, T.-K., and Trappey, A.J.C., 1996, "Modeling product structures and engineering changes using EXPRESS representation scheme," Proceedings, Symposium on Advanced Product Data Management Supporting Product Life-Cycle Activities, MED-Vol.4, ASME IMECE, November 17-22, Atlanta, Georgia, pp. 709-721.

30. 徐詩凱、張瑞芬、侯建良，1996，「以案例為基之電腦輔助夾持決策支援系統」，中華民國工業工程學會八十五年會論文集，第二冊，台北技術學院，85年12月15日，pp. 731-738。

31. Chang, C.-C., and Trappey, A.J.C., 1997, "A framework of product data management system considering design-to-production information integration and concurrence," Proceedings, 4th Intl Conf. on Industrial Engineering & Engineering Management, Aug. 18-22, Hong Kong.

32. Chang-Yi Yang, Nan-Ji Yang, Wen-Bin Lin, A.J.C. Trappey, 1997, "An automotive part design considering efficient design-by-feature and technical data interchange," Proceedings, CALS Expo International, Nov. 4-7, Tokyo, Japan.

33. Hou, J.L. and Trappey, A.J.C., 1997, "A systematic approach for fixture design and analysis: a workholding illustration of truck differential carrier," Proceedings, International Mechanical Engineering Congress and Exposition, ASME MED Vol. 6-2, Nov. 16-23, Dallas, Texas, pp. 229-236.

34. Trappey, C.V., Huang, L.-Y., and Trappey, A.J.C., 1997, "Express data modeling for retail shelf layout and sales analysis," Proceedings, 4th Intl Conf. on Industrial Engineering & Engineering Management, Aug. 18-22, Hong Kong.

35. Trappey, A.J.C., King, Z.-J., and Lin, T.-H., 1997, "Express data Modeling for development of a computerized calibration service," Proceedings, 22th Intl Conf. on Computer & Industrial Engineering, Dec. 20-22, Cairo, Egypt, pp. 244-247.

36. 張純榕，盧榮輝，徐政斌，張瑞芬，1997，「考量設計效率及產品設計製造資訊共享之電腦輔助輪圈設計系統開發」，第十屆中華民國自動化科技研討會論文集，October 4-5，台中中興大學, Vol. 2, pp. 865-872.

37. 彭定國，張瑞芬，1997，「發展以國際產品資料為基之工程資料管理系統」，第十屆中華民國自動化科技研討會論文集，October 4-5，台中中興大學, Vol. 2, pp. 857-864.

38. Yao, Y.-H., and Trappey, A.J.C., 1998, "Enable ISO9001 certification of virtual enterprise," Proceedings, AUTOMATION'98, July 20-22, Taipei.

39. Yang, N.-J., Trappey, A.J.C., and Yao, Y.-H., 1998, "ISO10303 AP203-based configuration management data modeling for electronic industry," Proceedings, AUTOMATION'98, July 20-22, Taipei.

40. Trappey, A.J.C., and Hou, J.-L., 1998, "A data and knowledge management system for hydraulic fixtures," Proceedings, Manufacturing Science and Engineering, 1998 ASME International Mechanical Engineering Congress and Exposition, ASME MED-Vol. 8, Nov. 15-20, Anaheim, CA, pp. 949-961.

41. Chang, P., Gulledge, T., Litvak, P., Norton, P., Sommer, R., Trappey, A.J.C., and Trappey, C.V., 1999, "Integrated Electronic Commerce: An International Laboratory for Business-to-Business Integration," In Global Production Management, Kai Mertins, Oliver Krause, and Burkhard Schallock (Editors), pp. 128-135.

42. Peng, T.-K., Trappey, A.J.C., Loa, Y.-S., 2000, "Developing integrated product data exchange pilot system," Proceedings, 6th International Conference on Automation Technology (Automation 2000), Taipei, Taiwan, May 9-11, pp. 877-884.

43. Yao, Y.-H., and Trappey, A.J.C., 2000, "Development of ISO9000–compliant document management system for extended enterprises," Proceedings, 6th International Conference on Automation Technology (Automation 2000), Taipei, Taiwan, May 9-11, pp. 973-980.

44. Trappey, C.V., Trappey, A.J.C., Wen, R., 2000, "Disigning an electronics ordering system to overcome barriers to internet-based electronic commerce," Proceedings, Advances in Concurrent Engineering (CE2000), Lyon, France, July 17-20, pp. 75-85.

45. Liu, T.-H., Trappey, A.J.C., and Lin, C.-S., 2000, "SDAI as the common access interface for object-oriented database management systems," Proceedings, Advances in Concurrent Engineering (CE2000), Lyon, France, July 17-20, pp. 343-354.

46. Cheng, Y.-H., Peng, T.-K., Trappey, A.J.C., and Loa, Y.-S., 2000, "Development of a web-based standard product data exchange portal for technical information integration of global supply chain," Proceedings, The 5th Annual International Conference on Industrial Engineering – Theory, Applications, and Practice, Dec. 13-15, Hsinchu, Taiwan.

47. Hou, J.-L., Trappey, A.J.C., and You, Z.-X., 2000, "On the development of product data management system for build-to-order PC configuration management," Proceedings, The 5th Annual International Conference on Industrial Engineering – Theory, Applications, and Practice, Dec. 13-15, Hsinchu, Taiwan.

48. Ho, P.-S., Trappey, A.J.C., Bailey, D., Gulledge, T., Sherwin, J., Sommer, R., and Grzella, J., 2001, "A solution for e-business technology transfer," Proceedings, The Impact of the Digital Economy and Electronic Commerce on APEC Small and Medium Enterprises, Small and Medium Enterprise Administration, Ministry of Economic Affairs, Taipei, Taiwan (in English), GPN 1009002208.

49. Trappey, A.J.C., Chen, S., and Ho, P.-S., 2001, "Internet-based electronic trade exchange and interfaces for e-business integration," Proceedings, The 9th International Conference on Human-Computer Interaction (HCI), August 5-10, New Orleans, USA.

50. Trappey, C.V., Trappey, A.J.C., and Chang, Y.-P., 2001, "Storefront interface analysis and evaluation for e-commerce applications," Proceedings, The 9th International Conference on Human-Computer Interaction (HCI), August 5-10, New Orleans, USA.

51. Trappey, A.J.C., Hou, J.-L., and You, Z.-X., 2001, "A product configuration and data management system for build-to-order computer and peripheral products," Proceedings, the second cross-strait workshop on manufacturing technology, September 3-5, Dalian, China, pp. 418-426.

52. Trappey, C.V., Trappey, A.J.C., and Hsu, F.-C., 2002, "Designing an integrated call center using Internet and wireless telephony technology," Proceedings, the 30th International Conference on Computers & Industrial Engineering (The 30th IC C&IE), Tinos Island, Greece, June 29th – July 2, pp. 923-928.

53. Trappey, A.J.C., and Ho, P.-S., 2002, "E-Business process modeling, evaluation and reengineering for distribution center services," Proceedings, the 30th International Conference on Computers & Industrial Engineering (The 30th IC C&IE), Tinos Island, Greece, June 29th – July 2, pp. 917-922.

54. 張瑞芬、侯建良, 2002, "具國際化特色之清華大學產業電子化卓越中心—實現製商整合示範教學之線上即時資源分享," 2002 產業電子化運籌管理學術暨實務研討會(九十一年度製商計畫執行成果暨教學改進計畫成果徵文) 論文集, 桃園 長庚大學,九十一年六月二十八日, pp. 18-29（獲教育部顧問室徵文活動績優獎表揚）.

55. 張瑞芬、江宜政、陳立人, 2002, "整合企業內與企業間電子交易機置之開放式 XML/EDI流程架構與系統分析," 2002 產業電子化運籌管理學術暨實務研討會論文集, 桃園 長庚大學, 九十一年六月二十八日.

56. 張瑞芬、許芙瑄、羅詠盛, 2002, "整合產品資料交換技術於企業間電子化交易平台之研發," 2002 產業電子化運籌管理學術暨實務研討會論文集, 桃園 長庚大學 , 九十一年六月二十八日.

57. 黃敬仁、姚銀河、張瑞芬、邱政興、鄭宇雄, 2002, "模組化網路協同設計環境架構與系統設計," 2002第一屆知識管理與協同規劃研討會論文集, 台中東海大學, October 12.

58. 江梓安、張瑞芬, 2002, "協同產品商務與應用-以產品資料管理為核心," 2002第一屆知識管理與協同規劃研討會論文集, 台中東海大學, October 12.

59. Trappey, C.V., Trappey, A.J.C., Wen, K.A., and Hsu, F.-C., 2002, "Defining IP mall business models and processes for Taiwan's national si-soft project," Proceedings, IP Based SOC Design 2002, Grenoble, France, Oct. 30-31, pp. 165-170.

60. Trappey, A.J.C., and Deng, T.-M., 2002, "Development of a web-based design-for-x decision support system," Proceedings, 4th Asia-Pacific Conference on Industrial Engineering and Management Systems (APIEMS '2002), Taipei, Dec. 18-20.

61. Trappey, A.J.C., Trappey, C.V., and Ho, P.-S., 2003, "XML interchange hub services for global supply chain integration," Proceedings, The International Symposium on Product Life Cycle Management (PLM'2003), Bangalore, India, July 16-18.

62. Trappey, C.V., Trappey, A.J.C., and Hsu, F.-C., 2003, "Adapted risk control approach for SoC design project management," Proceedings, The International Symposium on Product Life Cycle Management (PLM'2003), Bangalore, India, July 16-18.

63. Trappey, A.J.C., and Hou, J.L., 2003, "Electronic Business Excellency Center - An international resource center advancing theoretical and technical EB education," Proceedings, International Conference on Engineering Education, Valencia, Spain, Paper ID: N997, July 22-26.

64. Chiang, A.T.A., Trappey, A.J.C., 2003, "Develop an architecture of electronic purchasing and order tracking platform for integrating demand chain," Proceedings, The 7th World Multiconference on Systemics, Cybernetics and Informatics (SCI 2003), Orlando, FL, USA, July 27-30.

65. Trappey, A.J.C., Trappey, C.V., and Hu, F.C, 2004, "Customer service evaluation using key performance indicators," Proceedings, ISOneWorld 2004 Conference and Convention, Las Vegas, Nevada, USA, April 14-16.

66. Trappey, A.J.C., Trappey, C.V., Hsu, F.-C., Kuo, J., Chao, C.L.J., and Lu, T.T.H., 2004, "The analysis and evaluation of customer satisfaction and service management," Proceedings, The Annual International Symposium and 4th European Systems Engineering Conference (INCOSE 2004), Toulouse, France, June 20-24.

67. Trappey, A.J.C., Hsu, F.-C., Hou, J.-L., Trappey, C.V., and Liu, S.-J., 2004, "Designing a multi-channel legal knowledge service center using data analysis and contact center technology," Proceedings, The 8th World Multiconference on Systemics, Cybernetics and Informatics (SCI 2004), Orlando, FL, USA, July 18-21, Vol. 1, pp. 132-137.

68. Trappey, C.V., Trappey, A.J.C., Hsu, F.-C., Hou, J.-L. and Liu, S.-J., 2004, "Silicon intellectual property trade and management," Proceedings, The 1st International Symposium on Knowledge and Intellectual Property, Taichung, Taiwan, October 22-23.

69. Trappey, C., Huang, Y.-L., Trappey, A. J. C., Hou, J.-L., Chang, K. J. and Shih, S. Y, 2004, "DesignJet: A project management platform for collaborative IC design," Proceedings, IP Based SOC Design Forum and Exhibition, December 8-9, Grenoble, France, pp. 277-282.

70. Chiang, A.T.A., Trappey, A.J.C., and Ku, C.C., 2004, "Using knowledge-based intelligent reasoning to support dynamic collaborative design," Proceedings, APIEMS, December 12-15, Gold Coast, Queensland, Australia.

71. Trappey, A.J.C., Ho, P.-S., Lu, T.-H., and Shih, S.-Y., 2004, "Building B2B protocols in inter-enterprise process Execution," Proceedings, APIEMS, December 12-15, Gold Coast, Queensland, Australia.

72. Trappey, A.J.C., Lin, Felix T.L., and Trappey, C.V., 2005, "Developing silicon intellectual property e-trade mechanisms for system on chip design and reuse," Proceedings, The International Manufacturing Leaders Forum on Global Competitive Manufacturing, 27th February - 2nd March 2005, Adelaide, Australia.

73. Trappey, A.J.C., Wang, T.-J., and Hsiao, D.W.C., 2005, "Design of an innovative apparel knowledge-based service system," Proceedings, IACIS Pacific 2005 Conference, May 19-21, Taipei, Taiwan.

74. Trappey, A.J.C., Lin, Simon C.I., and Wang, Albert C.L., 2005, "Using neural network categorization method to develop an innovative knowledge management technology for patent document classification," Proceedings, The 9th International Conference on Computer Supported Cooperative Work in Design (CSCWD 2005), May 24-26, Coventry, UK.

75. Trappey, A.J.C., Chiang, T.A., Kuo, J.Y. and Luo, K.S., 2005, "Development of value chain collaborative model for product lifecycle management and its TFT-LCD industry adoption," Proceedings, CE2005: The 12th ISPE International Conference on Concurrent Engineering - Research and Applications, Ft. Worth/Dallas, Texas, USA, July 25-29, Dallas, TX, USA.

76. Trappey, A.J.C., Lin, Gilbert, Trappey, C.V., Lin, C.S., Lee, W.C., 2005, "Business and logistic hub integration to facilitate global supply chain linkage - The Case of automotive industry," Proceedings, CE2005: The 12th ISPE International Conference on Concurrent Engineering - Research and Applications, Ft. Worth/Dallas, Texas, USA, July 25-29, Dallas, TX, USA.

77. Trappey, A.J.C., Ke, Sam, Kuo, J.Y. and Luo, K.S., 2005, "Designing an expert system based workflow management system to integrate project flow and process logics," Proceedings, CE2005: The 12th ISPE International Conference on Concurrent Engineering - Research and Applications, Ft. Worth/Dallas, Texas, USA, July 25-29, Dallas, TX, USA.

78. Lu, Tung-Hung, Trappey, A.J.C., Hsu, Y.-C., and Chang, K., 2005, "Development of a collaborative and integrated design and manufacturing service platform for injection mold industry," Proceedings, International Conference on Product Lifecycle Management, July 11-13, Lyon, France.

79. Yao, Y.-H., Trappey, A.J.C., Ku C.C., Lin, Gilbert Y.P., Tsai J.P., Ho P.S., and Hung Benson, 2005, "Develop an intelligent equipment maintenance system using cyber-enabled JESS technology," Proceedings, 2005 IEEE International Conference on Mechatronics/Hands-on Intelligent Mechatronics and Automation (2005 IEEE ICM/HIMA), July 10-12, 2005, The Grand Hotel, Taipei, Taiwan.

80. Lu, T.-H. and Trappey, A.J.C., 2005, "Process reengineering of collaborative mold design and manufacturing – a system engineering evaluation approach," Proceedings, 2005 International Conference on Advanced Manufacture (ICAM 2005), Nov 28 - Dec 2, Taipei, Taiwan.

81. Huang, C.-J., Trappey, A.J.C., and Trappey, C.V., 2005, "Using intelligent agent technology to develop workflow management system for collaborative product development," Proceedings, APIEM 2005, Dec. 4~7, Manila, Philippines.

82. Trappey, A.J.C., and Hsiao, D.W., 2005, "Design and analysis of a customer relationship management system for 3D apparel e-services," Proceedings, 2005 Annual Meeting and Conference of Chinese Institute of Industrial Engineers（中國工業工程學會年會暨學術研討會），2005/12/17，新竹 中華大學。

83. Trappey, A.J.C., Trappey, C.V., Lee, M.S., Hsu, I., and Lee, W.T., 2006, "Modeling the global logistics business processes for optoelectronics firms," Proceedings, Second International Intelligent Logistics Systems Conference, 2006 (IILS 2006), Feb 22-23, Brisbane, Australia.

84. Trappey, A.J.C., Trappey, C.V., Kao, B.H.S., 2006, "Automated patent document summarization for R&D intellectual property management," Proceedings, The Tenth International Conference on Computer Supported Cooperative Work in Design (CSCWD 2006), May 3-5, 2006, Nanjing, P.R. China.

85. Hsiao, D.W., Trappey, A.J.C., Ho, P.-S., Kuo, J.-Y., and Luo, K.-S., 2006, "Applying collaborative design environment and brick-based component composition in automotive supply chain," Proceedings, 36th International Conf. on Computer & Industrial Engineering (ICCIE 2006), Taipei, Taiwan, June 20-23.

86. Trappey, C.V., Shih, T.-Y., and, Trappey, A.J.C., 2006, "The sensitivity analyses of the international investment decision model," Proceedings, 36th International Conf. on Computer & Industrial Engineering (ICCIE 2006), Taipei, Taiwan, June 20-23.

87. Trappey, C.V., Huang, Y.-S., and Trappey, A.J.C., 2006, "Patent analysis and clustering of semisubmersible mobile offshore drilling unit technology," Proceedings, 36th International Conf. on Computer & Industrial Engineering (ICCIE 2006), Taipei, Taiwan, June 20-23.

88. Trappey, A.J.C., Chen, K.-J., Huang, Y.-H., and Huang, B., 2006, "Process of green component management and public green component platform development," Proceedings, 36th International Conf. on Computer & Industrial Engineering (ICCIE 2006), Taipei, Taiwan, June 20-23.

89. Trappey, A.J.C., Lu, T.-H., and Chen, R.-H., "Development of a real time progress tracing system for collaboration mold design and manufacturing," Proceedings, 36th International Conf. on Computer & Industrial Engineering (ICCIE 2006), Taipei, Taiwan, June 20-23.

90. Trappey, A.J.C., Trappey, C.V., Lin, G.Y.P., Ho, P.-S., Ku, C.C., and Kuo, C.L., 2006, "Design an integrated intelligent equipment maintenance and production dispatching system using the JESS platform," Proceedings, 1st World Congress on Engineering Asset Management (WCEAM), July 11-14, Gold Coast, Australia.

91. Trappey, A.J.C., Trappey, C.V., Lin, G.Y.P., Liu, C.S., and Lee, W.T., 2006, "The evaluation of advantageous industries and the analysis of their global logistics operations – Case study of precision machine tool industry," Proceedings, 13th ISPE International Conference on Concurrent Engineering: Research and Applications (CE2006), French Riviera, France, September 18-22, 2006.

92. Trappey, A.J.C., Chiang, T.-A., and Trappey, C.V., and Kuo, J.-Y., 2006, "Develop a novel methodology for strategic product portfolio management considering multi-objectives and operational constraints," Proceedings, 13th ISPE International Conference on Concurrent Engineering: Research and Applications (CE2006), French Riviera, France, September 18-22, 2006.

93. Trappey, A.J.C., Trappey, C.V., and Chang, S.L.T., "An ontology-based knowledge document clustering methodology," Proceedings, Management International Conference (MIC) 2006, Portoroz, Slovenia, November 23-25, 2006, http://mic.fm-kp.si, Paper ID: MIC6410.

94. Trappey, A.J.C., Yu, J.C. and Huang, Y-H, 2006 "Ontology-based Automated Patent Document Summarization for R&D Intellectual Property Management," CIIE 95年度年會暨學術研討會，東海大學，九十五年十二月二十三日，Paper ID：258.

95. Trappey, A.J.C., Ku, C.C., Lin, G.Y.P., and Ho, P.-S., 2007, "Design and analysis of rule-based knowledge system supporting intelligent dispatching and its application in TFT-LCD industry," Proceedings, The Ninth International Conference on Automation Technology (Automation 2007), Taipei, Taiwan, June 13-15, 2007.

96. Taghaboni-Dutta, F., Trappey, A., Trappey, C. and Huang, Y.-S., 2007, "Patent analysis of RFID technology," Proceedings, The 2007 Annual MBAA International Conference, Chicago, IL, March 28-30 (Received the MBAA best paper award in operations management).

97. Hsiao, D.W., Trappey, A.J.C., Ma, L., Ho, P.-S., 2007, "Integrate collaborative project and intellectual asset management for IC design industry," Proceedings, CSCWD 2007, Melbourne, Australia, April 26~28, 2007.

98. Trappey, A.J.C., Chiang, T.-A., Chen, W.-C., Kuo, J.-Y., and Yu, C.-W., 2007, "A DEA benchmarking methodology for new product development process optimization," Proceedings, 14th ISPE International Conference on Concurrent Engineering: Research and Applications (CE2007), Sao Jose dos Campos, Brazil, July 16-20, 2007.

99. Trappey, A.J.C., Chen, D., and Liao, J.Y., 2007, "Develop TRIZ- and QFD-based integrated approach for green product development and life cycle assessment," Proceedings, 8th Asia-Pacific Conference on Industrial Engineering and Management Systems (APIEMS 2007), Kaohsiung, Taiwan, http://apiems2007.yuntech.edu.tw/, December 9-13.

100. Trappey, A.J.C., Huang, Y.S., and Wu, C.Y., 2007, "Non-exhaustive clustering for overlapping patent clusters analysis," Proceedings, 8th Asia-Pacific Conference on Industrial Engineering and Management Systems (APIEMS 2007), Kaohsiung, Taiwan, http://apiems2007.yuntech.edu.tw/, December 9-13.

101. Trappey, C.V., Trappey, A.J.C., Liu, C.S., Lee, W.T., and Hung, Y.L., 2007, "Analysis and design of supply chain logistic processes for the automotive industry," Proceedings, 2007 International Conference on Advanced Manufacture (ICAM 2007), Tainan, Taiwan, November 26-30.

102. Hsiao, D.W., Trappey, A.J.C., Ma, L., Fan, Y.-C., and Mao, Y.-C., 2007, "Architecture and process models of agent-based integrated and collaborative engineering asset management," Proceedings, 2007 International Conference on Advanced Manufacture (ICAM 2007), Tainan, Taiwan, November 26-30.

103. Trappey, A.J.C., Wang, Y.B., Wang, B.J., Lee, P.C., and Liu, C.S., 2007, "Develop an automatic medical vital sign detection system using knowledge-based intelligent

reasoning and mobile tele-communication technology," Proceedings, Management International Conference (MIC 2007), Portoroz, Slovenia, November 22-24.

104. Liu, C.S., Trappey, C.V., Trappey, A.J.C., Hung, A.Y.L., Huang, A.Y.L. and Lee, W.T., 2008, "Analysis and design of a supply chain logistics hub for after market automotive parts distribution," Proceedings, 5th International Conference on Service Systems and Service Management (ICSSSM'08), June 30-July 2, Melbourne, Australia.

105. Trappey, A.J.C., Trappey, C.V., and Wu, C.-Y., 2008, "A semantic based approach for automatic patent document summarization," Proceedings, 15th ISPE International Conference on Concurrent Engineering (CE2008), August 18-22, Belfast, N. Ireland, UK, pp. 485-494 (Springer-Verlag, London, ISBN 978-1-84800-971-4).

106. Huang, C.-J., Trappey, A.J.C., and Wu, C.-Y., 2008, "Develop a formal ontology engineering methodology for technical knowledge definition in R&D knowledge management," Proceedings, 15th ISPE International Conference on Concurrent Engineering (CE2008), August 18-22, Belfast, N. Ireland, UK, pp. 495-502 (Springer-Verlag, London, ISBN 978-1-84800-971-4).

107. Trappey, A.J.C., Hsiao, D.W., Ma, L., Chung, Y.L., Kuo, Y.L., 2008, "Agent-based collaborative maintenance chain for engineering asset management," Proceedings, 15th ISPE International Conference on Concurrent Engineering (CE2008), August 18-22, Belfast, N. Ireland, UK, pp. 29-52 (Springer-Verlag, London, ISBN 978-1-84800-971-4).

108. Huang, C.-J., Trappey, A.J.C., and Wu, C.-Y., 2008, "Building a formal ontology engineering methodology for knowledge definition and representation in design knowledge management," Proceedings, Management International Conference (MIC2008), Barcelona, Spain, Nov. 26-29.

109. Trappey, A.J.C., Chen, M.-Y., Wu, C.-R., and Hsu, F.-C., 2008, "Develop a personalized service platform with automatic customer categorization capability to enhance customer satisfaction and loyal customer retention," Proceedings, Management International Conference (MIC2008), Barcelona, Spain, Nov. 26-29.

110. Trappey, C.V., Trappey, A.J.C., Shih, Tsui-Yii, 2008, "Knowledge management for the investigation and resolution of OEM shoe factory problems," Proceedings, Management International Conference (MIC2008), Barcelona, Spain, Nov. 26-29.

111. Hou, J.-L., Trappey, A. and Wen, U.-P., 2009, "Enterprise Logistics and Electronic Business Center (ELEBC)--A resource center for interdisciplinary e-business, supply chain logistic management and RFID education," Proceedings, APEEC 2009, The ASME Asia-Pacific Engineering Education Congress, April 9-11, Taipei, Paper ID: 10020. (Submitted).

112. Trappey, A.J.C., Hsiao, D.W., Ma, L., Chung, Y.-L., 2009, "Maintenance chain integration using petri-net enabled Prometheus MAS modeling methodology" (#3361), Proceedings, The 13th IEEE International Conference on CSCW in Design (CSCWD 2009), April 22-24, Santiago, Chile.

113. Trappey, C.V., Trappey, A.J.C., Lin, G.Y.P., Liu, C.S., and Lee, W.T., 2009, "The analysis and development of Taiwan's industrial logistics hubs" (#3385), Proceedings, The 13th IEEE International Conference on CSCW in Design (CSCWD 2009), April 22-24, Santiago, Chile.

114. Trappey, C.V., Trappey, A.J.C., Huang, Ashley Y.L., Lin, G.Y.P., 2009, "Automobile manufacturing logistic service management and decision support using classification and clustering methodologies," Proceedings, The 16th ISPE International Conference on Concurrent Engineering (CE2009), July 20-24, 2009, Taipei, Taiwan, pp. 581-592.

115. Trappey, A.J.C., Ni, W.-C. (Kent), and Wu, C.-Y. (Squall), 2009, "A negotiation strategy of collaborative maintenance chain and its multi-agent system design and development," Proceedings, The 16th ISPE International Conference on Concurrent Engineering (CE2009), July 20-24, 2009, Taipei, Taiwan, pp. 337-347.

116. Trappey, A.J.C., Chen, M.-Y. (Matt), Hsiao, D.W., 2009, Lin, G.Y.P., "The green product eco-design approach and system complying with Energy using Products (EuP) directive," Proceedings, The 16th ISPE International Conference on Concurrent Engineering (CE2009), July 20-24, 2009, Taipei, Taiwan, pp. 243-254.

117. Trappey, A.J.C., Trappey, C.V., Wu, C.-Y. (Squall), 2009, "Develop non-exhaustive overlapping partitioning clustering for patent analysis based on the key phrases extracted using ontology schema and fuzzy adaptive resonance theory," Proceedings, The 16th ISPE International Conference on Concurrent Engineering (CE2009), July 20-24, 2009, Taipei, Taiwan, pp. 349-360.

118. Lu, T.-H. (Tony), and Trappey, A.J.C., 2009, "Development of a web based mass customization platform for bicycle customization services," Proceedings, The 16th ISPE International Conference on Concurrent Engineering (CE2009), July 20-24, 2009, Taipei, Taiwan, pp. 847-854.

119. Liu, Y.-L., Hsiao, D.W. (David), Trappey, A.J.C., 2009, "The study of autonomous negotiation system based on auction enabled intelligent agent – Using parking tower asset maintenance as case example," Proceedings, The 16th ISPE International Conference on Concurrent Engineering (CE2009), July 20-24, 2009, Taipei, Taiwan, pp. 769-779.

120. Trappey, C.V., Taghaboni-Dutta, F., Wu, H.-Y., Trappey, A.J.C., 2009, "China RFID patent analysis," Proceedings, The ASME International Manufacturing Science and Engineering Conference 2009 (MSEC2009-84168), October 4-7 2009, West Lafayette, Indiana, USA.

121. Trappey, A.J.C., Wu, C.-R., Trappey, C.V., Hsu, F.-C., 2009, " Using fuzzy cognitive map for evaluation of RFID-based reverse logistics services," Proceedings, The 2009 International Conference on Systems, Man, and Cybernetics (Paper No. 741), October 11-14, 2009, San Antonio, Texas, USA.

122. Trappey, C.V., Trappey, A.J.C., Liu, C.S., 2009, "Develop patient monitoring and support system using mobile communication and intelligent reasoning," Proceedings, The 2009 International Conference on Systems, Man, and Cybernetics (Paper No. 162), October 11-14, 2009, San Antonio, Texas, USA.

＊以下為最近五年內發表之研討會論著＊

123. Trappey, Amy J. C., Trappey, Charles V. , Chiang, Tzu-An, Huang, Yi-Hsuan, 2010, "An Ontology-based artificial neural network approach for knowledge document self-categorization and semantic-oriented search," Proceedings, The 1st International Conference on Systematic Innovation, Hsinchu, Taiwan, January 22-25.

124. Lin, Wythe W.Z., Ting, L.W., Zhang, Y.S., Trappey, Amy J.C., and Lee, W.T., 2010, "The analysis of logistics model and its service preferences of manufacturing industry in special economic and trade zone," Proceedings, the 3rd International Conference on Advanced Manufacture (ICAM 2010), Kenting, Taiwan, February 2-5, 2010.

125. Chiang, Tzu-An, Wu, Chun-Yi, Trappey, Amy J. C., Trappey, Charles V., 2010, "Applying the BPANN and the hierarchical ontology to develop a methodology of NTF-based binary knowledge document classification and content analysis," Proceedings,

The 14th International Conference on Computer Supported Cooperative Work in Design (CSCWD2010), Shanghai, China, April 14- 16.

126. Trappey, C.V., Chang, A.-C. (Ada), Trappey, A.J.C., Rodriguez Foronda, A. L., 2010, "Process analysis of electronic documents related to injury investigations at a footwear factory," Proceedings, The 2010 Conference on Business Management (Paper No. 007), June 18, 2010, Taipei, Taiwan.

127. Trappey, A.J.C., Lee, Ching-Hung, Chen, Wen-Pin, Trappey, C.V., 2010, "A framework of customer complaint handling system," Proceedings, 2010 7th International Conference on Service Systems and Service Management (ICSSSM), Tokyo, Japan, June 28-30, 2010, pp.1-6, doi: 10.1109/ICSSSM.2010.5530119.

128. Chen, K.-J., Lo, Y.-J., Trappey, A.J.C., Trappey, C.V., 2010, "Reengineer restaurant set-meal design process – A combination of modular product design and system engineering evaluation approach," Proceedings, The International Conference on System Science and Engineering (ICSSE 2010), July, 1-3, 2010, Taipei, Taiwan.

129. Trappey, A.J.C., Chen, K.-J., Lo, Y.-J., 2010, "Collaborative design of modularized set meal using the mass customization concept," Proceedings, The 17th ISPE International Conference on Concurrent Engineering (CE2010), September 6-10, 2010, Cracow, Poland, *New World Situation: New Directions in Concurrent Engineering - Advanced Concurrent Engineering,* ISBN 978-0-85729-023-6, pp. 339-348.

130. Trappey, A.J.C., Trappey, C.V., Lin, Y.-L., Kuo, Y.-K., Chang, Y.-S., Ma, L., 2010, "Sales service improvement for an industrial transformer manufacturer," Proceedings, The 17th ISPE International Conference on Concurrent Engineering (CE2010), September 6-10, 2010, Cracow, Poland, *New World Situation: New Directions in Concurrent Engineering - Advanced Concurrent Engineering,* ISBN 978-0-85729-023-6, pp. 349-360.

131. Trappey, A.J.C., Trappey, C.V., Chang, A.-C., Chao, M.-H., Hsieh, H.-C. and Lee, F.-L., 2010, "Promoting entertainment artists using data mining and lifecycle forecasting techniques," Proceedings, IEEE The 17th International Conference on Industrial Engineering and Engineering Management (Paper No. 413-2070124), Oct. 29-31, 2010, Xiamen, China.

132. 張瑞芬、江梓安、陳文賓、張富雄、李旺昌、田宜遜、林振錦，2010，區內與區外整合加工之物流營運模式研究-以重電產業為例，工業工程管理年會暨學術研討會，2010/12/25，台南，台灣（**獲大會論文佳作獎**）

133. Trappey, A.J.C., Trappey, C.V., Hsiao, C.-T., Ou, Jerry J.R., Chang, C.-T., 2010, "The application of life cycle system dynamics to control mass customization carbon footprints," Proceedings, International Conference on Mass Customization and Personalization - Asia Pacific 2010 (MCP-AP2010), Dec 6-9, 2010, Taipei, Taiwan.

134. Trappey, A.J.C., Trappey, C.V., Wu, C.-Y., Lin, Chi-Wei, 2010, "A patent quality analysis methodology for innovation management," Proceedings, International Conference on Mass Customization and Personalization - Asia Pacific 2010 (MCP-AP2010), Dec 6-9, 2010, Taipei, Taiwan.

135. Trappey, A.J.C., Lin, G.Y.P., Lee, W.-T., Tien, I-S., Lin, Wythe W.Z., Yang, T.-H., 2011, "The analysis of logistics model in special economic and trade zones for manufacturing and exporting large engineering assets," Proceedings, The 15th International Conference on Computer Supported Cooperative Work in Design (CSCWD 2011), June 8-10, 2011, Lausanne, Switzerland.

136. Trappey, Amy J.C., Lin, G.Y.P., Ou, Jerry J.R., Hsiao, C.-T., Chen, Kevin W.P., 2011, " Green transportation strategies and impact evaluation using system dynamic modeling, " Proceedings, 18th ISPE International Conference on Concurrent Engineering (CE2011),

July, 4-8, 2011, MIT, Boston, USA.

137. Trappey, Charles V., Trappey, Amy J.C., Gilbert Y.P. Lin, and Chang, Y.-S., 2011, "System dynamics evaluation of renewable energy policies," Proceedings, 18th ISPE International Conference on Concurrent Engineering (CE2011), July, 4-8, 2011, MIT, Boston, USA.

138. Chiang, Z.A, Trappey, AJ.C., Chang, Y.S., Cho, H.Y., Lee, W.T. and Tien, Y.H., 2011, "The study of logistic operation models between companies inside and outside domestic and foreign industrial zones - A case study of solar energy industry in Taiwan," Proceedings, Technology Innovation and Industrial Management 2011 (TIIM 2011), 28-30 June, Oulu, Finland.

139. 張瑞芬、彭馨儀、林彥伯、李旺蒼，2011，以系統動態學分析產業支援海外生產基地模式，2011中國工業工程學會年會暨學術研討會，2011/12/10，新竹，明新科技大學

140. Trappey, A.J.C., Trappey, C.V., Sun, Y., Ma, L., Chen, Leo K.J., 2012, "A group method of data handling for oil-immersed transformer life cycle assessment," Proceedings, International Conference on Advanced Manufacture (ICAM 2012), Taiwan, March 4-8, 2012.

141. Trappey, A.J.C., Wang, Y.-H., Lin, T.-H., Peng, H.-Y., 2012, "Empirical analysis of patent cross-licensing for light-emitting diode (LED) industry," Proceedings, The 21st International Conference on Management of Technology (IAMOT2012), Hsinchu, Taiwan, March 18-22, 2012.

142. Hsiao, C.T., Trappey, A.J.C., Ou, J.J.R., Li, S.J., Chen, K.W.P., 2012, "Benefit evaluation of green transportation policy for Penghu low carbon island development using system dynamics approach," Proceedings, Western Decision Sciences Institute (WDSI 2012), Hawaii, April 3-6, 2012.

143. Trappey, C.V., Trappey, A.J.C., Cho, H.Y., Chen, E., Lee, W.T., 2012, "Bulk purchase logistic management for part supplies of overseas 3C product final assemblies," Proceedings, Western Decision Sciences Institute (WDSI 2012), Hawaii, April 3-6, 2012.

144. Trappey, A.J.C., Trappey, C.V., Wu, C.-Y. (Squall), Fan, C.Y., Lin, Y.-L., 2012, "Intelligent recommendation methodology and system for patent search," Proceedings, The 16th International Conference on Computer Supported Cooperative Work in Design (CSCWD 2012), Wu Han, China, May 23-25, 2012.

145. Lu, Ta-Ping, Trappey, A.J.C., Chen, Yi-Kuang, Chang, Yu-Da, 2012, "Collaborative design of supply chain management key processes in the semiconductor industry," Proceedings, The 16th International Conference on Computer Supported Cooperative Work in Design (CSCWD 2012), Wu Han, China, May 23-25, 2012.

146. Lee, C.H., Wang, Y.H., Trappey, A.J.C., 2012, "Service design of digital interactive billboard as a social media –system engineering perspectives," Proceedings, National Symposium on System Science and Engineering (NSSSE), Keelung, Taiwan, June 16-17, 2012.

147. Trappey, A.J.C., Trappey, C.V., Liu, H.Y. (Penny), Hsiao, C.T., Ou, J.J.R., Chen, W.P. (Kevin), 2012, "Location quotient EIO-LCA method for carbon emission analysis," Proceedings, The 19th ISPE International Conference on Concurrent Engineering (CE2012), Trier, Germany, September 3-7, 2012.

148. Wu, Chun-Yi, Trappey, A.J.C., Trappey, C.V., 2012, "Using patent ontology engineering for intellectual property defense support system," Proceedings, The 19th ISPE

International Conference on Concurrent Engineering (CE2012), Trier, Germany, September 3-7, 2012.

149. Trappey, A.J.C., Trappey, C.V., Tsao, W.-T., 2012, "Engineering asset lifespane evaluation using logistic regression," Proceedings, World Congress on Engineering Asset Management (WCEAM 2012), Daejon, S. Korea, October 8-10, 2012.

150. Trappey, A.J.C., Wu, C.-Y. (Squall), Yeh, F.-M., Kuo, Y.-F., 2013, "ISO14051-based material flow cost accounting system framework for collaborative green manufacturing," Proceedings, The 17th International Conference on Computer Supported Cooperative Work in Design (CSCWD 2013), Whistler, BC, Canada, June 27-29, 2013.

151. Trappey, A.J.C., Trappey, C.V., Peng, H.-Y., Wang, T.-M., 2013, "Ontology-based dental implant connection patent analysis," Proceedings, The 17th International Conference on Computer Supported Cooperative Work in Design (CSCWD 2013), Whistler, BC, Canada, June 27-29, 2013.

152. Trappey, A.J.C., Chang C.M. (Jimmy), Trappey, C.V., Ma, L., 2013, "Integrating real-time monitoring and asset health prediction for power transformer intelligent maintenance and decision support," Proceedings, The 4th International Asia Conference on Industrial Engineering and Management Innovation (IEMI'2013) 第四屆工業工程與管理創新國際研討會，2013/7/18，台北，台灣大學。

153. Trappey, A.J.C., Wu, Squall C.Y., Yeh, Mike F.M., Kuo, Andy Y.F. and Lin, C.T., 2013, "Develop ISO14051-based material flow cost accounting system for green manufacturing management - A case study," Proceedings, International Display Manufacturing Conference 2013 (IDMC'13), Taipei, Taiwan, August 27-30, 2013.

154. Trappey, A.J.C., Trappey, C.V., Liu, Penny H.Y., Lin, Lee-Cheng, and Ou, Jerry J.R., 2013, "Constructing a hierarchical learning cost curve for photovotaic system," Proceedings, 20th ISPE International Conference on Concurrent Engineering (CE2013), Melbourne, Australia, September 2-6, 2013.

155. Trappey, A.J.C., Trappey, C.V., Chang, Ai-Che, Lee, W.T., and Cho, Hsueh-Yi, 2013, "Global logistic management for overseas production using abulk purchase 4PL Model," Proceedings, 20th ISPE International Conference on Concurrent Engineering (CE2013), Melbourne, Australia, September 2-6, 2013.

156. Wang, Yu-Hui, and Trappey, A.J.C., 2013, "Applying multidimensional quality module and Hotelling's T2 to investigate competitive advantages of digital versatile disc patent pools," Proceedings, 10th IEEE International Conference on e-Business Engineering (ICEBE 2013), Coventry, UK, September 11-13, 2013.

157. Trappey, A.J.C., and Chang, Juice Y.C., 2013, "An intelligent fault diagnosis of power transformers based on integrated DGA rules," Proceedings, 16th International Conference on Advances in Materials and Processing Technologies (AMPT 2013), Taipei, Taiwan, September 22-26, 2013.

158. Lee, Ching-Hung, Wang, Yu-Hui, and Trappey, A.J.C., 2013, "Construct dynamic customer complaint ontology using web ontology language for an intelligent and interoperable customer complaint handling system," Proceedings, 43th International Conference on Computer & Industrial Engineering (CIE43), Hong Kong, October 16-18, 2013.

159. Trappey, A.J.C., Trappey, C.V. Trappey, Wu, Chun-Yi, Liaw, Yi-Ching, and Zhang, Fu-Xiong, "Development of innovative product design processes using patent multi-scale analysis and TRIZ methodology," Proceedings, 43th International Conference on Computer & Industrial Engineering (CIE43), Hong Kong, October 16-18, 2013.

160. Trappey, A.J.C., Lin, Chii-Ruey, Wu, Chun-Yi, Fang, P.S., 2013, "Dynamic patent analysis of wind power systems and engineering asset development," Proceedings, 8th World Congress on Engineering Asset Management (WCEAM 2013), Hong Kong, Oct. 30-Nov. 1, 2013.

161. Trappey, A.J.C., Trappey, C.V., Ma, L., Chang, Jimmy C.M., 2013, "Integrating real-time monitoring and asset health prediction for power transformer intelligent maintenance and decision support," Proceedings, 8th World Congress on Engineering Asset Management (WCEAM 2013), Hong Kong, Oct. 30-Nov. 1, 2013.

162. Liao, C.S., Huang, H.Y., Yang, S.T., Trappey, A.J.C., 2013, "Managing knowledge assets for the development of the renewable energy industry," Proceedings, 8th World Congress on Engineering Asset Management (WCEAM 2013), Hong Kong, Oct. 30-Nov. 1, 2013.

163. Trappey, A.J.C., Trappey, C.V., Wang, D.Y.C., Lu, H.W., Ou, J.J.R., 2013, "Construct analytical models to support renewable energy policies using data mining techniques," Proceedings, The 12th International Conference on Automation Technology (Automation2013), Tainan, Taiwan, November 1-3, 2013.

164. Trappey, A.J.C., Trappey, C.V., Dai, Dennis W.T., Chang, Sandy W.C., Lee, W.T., 2014, "The Implementation of Global Logistic Services Using One-stop Logistics Management," Proceedings, The 2014 18th IEEE International Conference on Computer Supported Cooperative Work in Design (CSCWD 2014), Hsinchu, Taiwan, May 21-23, 2014.

165. Trappey, A.J.C., Trappey, C.V., Wang, Danny Y.C., Li, S.J., Ou, J.J.R., 2014, "Evaluating Renewable Energy Policies Using Hybrid Clustering and Analytic Hierarchy Process Modeling," Proceedings, The 2014 18th IEEE International Conference on Computer Supported Cooperative Work in Design (CSCWD 2014), Hsinchu, Taiwan, May 21-23, 2014.

166. Wang, Y.H., Trappey, A.J.C., Liu, B.P., 2014, "Develop an Integrated Patent Quality Matrix for Investigating the Competitive Features among Multiple Competitive Patent Pools," Proceedings, The 2014 18th IEEE International Conference on Computer Supported Cooperative Work in Design (CSCWD 2014), Hsinchu, Taiwan, May 21-23, 2014.

167. Chang, W.C., Trappey, C.V., Trappey, A.J.C., Wu, C.Y., 2014, "Forecasting Dental Implant Technologies Using Patent Analysis," Proceedings, PICMET '14 Conference, Kanazawa, Japan, July 27-31, 2014.

(D) 技術報告等其它著作 (Other publications)

1. 黃幼芯、李旺蒼、許敦年、張瑞芬，2013，台商製造業兩岸生產營運之運籌與物流模式分析，機械工業雜誌，369期，pp. 103-115。

2. 黃幼芯、李旺蒼、張瑞芬、林彥伯、陳怡如、卓學毅，2012，支援兩岸生產之零組件與半成品之物流營運模式分析，機械工業雜誌，357期，pp. 124-134。

3. 張瑞芬、張力元、陳冠儒，2012，以即時變壓器監控資訊為基之智慧型工程資產管理平台暨其GMDH壽期減損評估模型開發，華城技術，15期，pp.55-67。

4. 張瑞芬、張力元、曹菀婷，2011，整合即時設備數據之先進工程資產壽期評估模式，華城技術、14期，pp. 38-44。

5. 黃燕玲、張瑞芬、劉澄昇、黃雅莉、李旺蒼，2008，車燈產業之全球運籌Hub之分析與規劃，機械工業雜誌，306期 (2008-9)，pp. 101-112。

6. Yao, Y.-H., Lin, G.Y.P., and Trappey, A.J.C. (2008), "Development of intelligent equipment diagnosis and maintenance system using JESS: Java expert system shell technology," Book Chapter, *Techniques and Tools for the Design and Implementation of Enterprise Information Systems* (Ed. Angappa Gunasekaran), IGI Publishing, Hershey, PA, USA, pp. 271-292.

7. 李旺蒼、黃燕玲、張瑞芬，2007，兩岸產業物流Hub作業模式研究，機械工業雜誌，pp. 216-239。

8. 王銘立、李旺蒼、劉澄昇、張瑞芬、李明憲、林彥伯，2006，汽車產業供應鏈運籌Hub之需求分析，機械工業雜誌， 285 期，pp. 18-32。

9. 李旺蒼、劉澄昇、王銘立、張瑞芬、洪瑗伶、林彥伯，2006，汽車產業物流與國際接軌作業模式研究，機械工業雜誌， 285 期，pp. 41-55。

10. 李旺蒼、劉澄昇、徐雅蕙、張瑞芬、林彥伯，2006，應用網路維護系統於備品物流之先導性研究_以半導體產業為例，285 期，pp. 56-69。

11. 張瑞芬、江梓安、郭振堯，2006，產品組合管理e化策略服務平台，2006，自動化學會會刊 (2006-3)，pp. 10-15。

12. 徐雅蕙、李旺蒼、張瑞芬、李明憲、林彥伯，2005，汽車製造業協同供補貨系統作業規劃，機械工業雜誌， **273** 期，pp. 4-22。

13. 李旺蒼、徐雅蕙、劉澄昇、張瑞芬、李明憲、侯建如，2005，運籌產業物流 Hub 之運用趨勢調查，機械工業雜誌， **273** 期，pp. 107-120。

14. 張瑞芬、李旺昌、劉澄昇、林彥伯、許育嘉、李明憲，2004，全球供應鏈及商品需求鏈之營運中心與國際運籌中心整合運作模式規劃 – 以汽車產業為例，機械工業雜誌，2**61** 期，pp. 89-106。

15. 侯建良、張瑞芬、郭振堯、盧東宏，2003，支持產品生命週期管理之知識流程控管模式，機械工業雜誌，249期，pp. 120-132。

16. 張瑞芬，2001，STEP標準資料模式與CAD系統之整合應用--汽車零件設計系統，工程科技通訊。第五十五期，pp. 62-67。

17. Trappey, C.V., Trappey, A.J.C., Gulledge, T.R., and Sommer, R. (2000), "Promoting electronic commerce in the defense industry," Book Chapter, *Electronic Commerce: Opportunities and Challenges*, Idea Group Publishing, Hershey, PA, USA, pp. 85-101.

18. Trappey, C.V., and Trappey, A.J.C., 1999, "The Internet economy and e-business: trends and opportunities in China, Taiwan and Hong Kong," *ChinaOnline*.

19. 張瑞芬，1995，電腦輔助航太零組件治夾具設計與分析系統開發，工研院機械所，計畫結案報告。

20. 張瑞芬 、彭定國，1997，CALS於產品資料整合上的重要工具—STEP之概念與技術，資訊應用導航(8)。

21. 教育部、國科會、工研院、資策會、中衛發展中心 - 各項委託研究計畫結案報告等。