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D. Daniel Sheu graduated from National Taiwan University with a B.S.M.E. degree in 1977. He received an M.S.M.E. degree from State University of New York at Buffalo in 1983. He received his second master-level engineering degree focusing on computer science and his Ph.D. degree in engineering from UCLA in 1987 and 1989. He also received his master of business administration (MBA) degree from Kellogg Graduate School of Management at Northwestern University in 1994. Daniel has 9 years of industrial experience primarily in the electronic industries with Hewlett-Packard, Motorola, and Matsushita. His areas of interests include Systematic Innovation/TRIZ, Design & Manufacturing Management, Equipment Management, and Factory Diagnosis. He has been with National Tsing Hua University since 1996. Daniel is a representative of MA TRIZ Council of Expertise & Methodology, a MA TRIZ Level 3 certified TRIZ expert, and a Certified Manufacturing Engineer.

Journal Papers

International Journals:

1. Sheu, D. Daniel and Mike Hou, "A Systematic Device Trimming Method: Theory and Applications", Accepted by the International Journal of Systematic Innovation, 2012
2. Sheu, D. Daniel, Chia-Hung Chen and Pang-Yen Yu, "Contradiction Matrix and Invention Principles for Semiconductor Manufacturing Industry: Chemical Mechanical Polishing", Journal of Intelligent Manufacturing, (2012) 23:1637–1648 DOI: 10.1007/s10845-010-0466-4 Online First™. **(SCI/ 0.859)**
3. Sheu, D. Daniel and Chia-Hung Chen, "TRIZ Problem-solving Model for Multiple-to-Multiple Parameter Contradictions Using Case-based Reasoning", The International Journal of Systematic Innovation, vol. 01, No.03, 2011.
4. Sheu, D. Daniel and H.K. Lee, "Classification and Process of Systematic Innovation", International Journal of Systematic Innovation, pp. 3-22, vol. 1, No. 1, 2010.
5. Sheu, D. Daniel and H.K. Lee, "A Proposed Process for Systematic Innovation", International Journal of Production Research, 02 February 2010 (iFirst), pp. 1–22,. **(SCI/0.560).**
6. Sheu, D. Daniel and P.K Hung, "An Integrated New Product Introduction Performance Measurement System: An Example in Notebook Computer Industry", International Journal of Manufacturing Technology and Management, Volume 16, No. 1/2, 2009, pp. 3-21. **(EI)**
7. Sheu, D. Daniel and Jack Hsueh, "Analysis of operator-machine configuration for single and multi-processor machines", International Journal of Production Research, (2009). **(SCI/0.560)**
8. Sheu, D. Daniel and Jiun-Yuan Chen, "Line Balance Analyses for System Assembly Lines in an Electronic Plant", Production Planning & Control. 19(3), 256-264, (2008). **(SCI/0.561)**
9. Sheu, D. Daniel, "Body of Knowledge of Classical TRIZ and Relationships among Its Tools", The TRIZ Journal, October, 2007, <http://www.triz-journal.com/archives/year/>.
10. Sheu, D. Daniel and D. R. Chen, "Backward Design and Cross-Functional Design Management", Computers & Industrial Engineering, 53(1), 1–16 (2007). **(SCI/ 1.589)**
11. R.Y. Chen, D. Daniel Sheu, and C. M. Liu, "Vague knowledge search in the design for outsourcing using

- fuzzy decision tree”, *Computers & Operations Research*, 34(12), 3628-3637. (2007) (NSC92-2213-E-007-087; 088). **(SCI/1.147)**
12. Sheu, D. Daniel, “Overall Input Efficiency and Total Equipment Efficiency”, *IEEE Transactions on Semiconductor Manufacturing*, 19(4), 1-6, (2006). **(SCI/0.765)**
 13. Sheu, D. Daniel and Jun Yuan Kuo, “A model for preventive maintenance operations and forecasting”, *Journal of Intelligent Manufacturing*, 17(4), 441-451. (2006). (NSC94-2213-E-007-065). **(SCI/ 0.859)**
 14. Sheu, D. Daniel and Jeff Lin, “Equipment Management Strategy Under Machine Capacity Loss”, *International Journal of Production Economics*, 103(1), 308-315, (2006). **(SCI/0.995)**
 15. Chia-Jo Huang and D. Daniel Sheu, “Fuzzy Multi-attribute Analysis for Evaluation of Manufacturing Management of Performance of Notebook Computer Plants- A case study”. *International Journal of Industrial Engineering - Theory, Applications and Practices*, 11(2), 178-186, (2004). **(SCI/0.114)**
 16. Sheu, D. Daniel and Shiao-Lan Peng, “Assessing Manufacturing Management Performance for Notebook Computer Plants In Taiwan”, *International Journal of Production Economics*, 84(2), 215-228, (2003). (NSC89-2213-E-007-136). **(SCI/0.995)**
 17. Sheu, D. Daniel and Tone-Cheng Wang, “Manufacturing process analysis for notebook computer plants: Circuit board assembly”, *International Journal of Industrial Engineering - Theory, Applications and Practices*, 8(4), 370-378, (2001). **(SCI/0.114)**
 18. Sheu, D. Daniel, J. Lin, and Peter Liao, “Benchmarking manufacturing management of Taiwan's IC packaging plants”, *International Journal of Industrial Engineering - Theory, Applications and Practices*, 7(4), 365-370. (2000). **(SCI/0.114)**
 19. Sheu, D. Daniel, “A laser marking system for flexible circuit identification”, *Journal of Manufacturing Systems*, 19(3), 202-212, (2000). **(SCI/0.032)**
 20. Sheu, D. Daniel, “An ultra-reliable board identification system”, *Journal of Manufacturing Systems*, 15(2), 84-94, (1996). **(SCI/0.032)**
 21. Sheu, D. Daniel, “A Part Identification System for Harsh Manufacturing Environments”, *The Journal of Applied Manufacturing Systems*, Vol. 7, No. 2, pp. 43-50, Spring 1995.
 22. Sheu, D. Daniel and Alan Bond, “A Generalized Method For 3-D Object Location From Single 2-D Images”, *Pattern Recognition*, 25(8), 771-786, (1992). **(SCI/2.019)**

Domestic Journals

1. 許棟樑, 陳大仁, “整合性優質設計之知識管理系統:以筆記型電腦產業為例”, *管理與系統*, 2011 已接受. (Sheu, D. Daniel & Daren Chen, “Knowledge Management System for Integrated Design for Excellence: an Example for Notebook Computer Industry”, Accepted by *Management and Systems* 2011.(In Chinese))
2. 許棟樑, 陳瑞陽, “模糊客訴問題的原因鑑定及回饋”, *中華國際計量管理期刊*, vol.3, no.1, pg 37~50, 2006. (Sheu, D. Daniel & Jack Chen, “Cause Identification and Problem Feedback for Fuzzy Customer Complaints”, *Journal of Probability and Statistical Science*, vol.3, no.1, pg 37~50, 2006.(In Chinese))
3. 許棟樑、黃嘉若, “半導體製造廠黃光區機台規劃的模擬研究”, *中華國際計量管理期刊*, 第三卷第一期, 2006. (Sheu, D. Daniel & C. J. Huang, “Machine Planning and Simulation for Photolithography Areas in Semiconductor Fabs”, *Journal of Probability and Statistical Science*, vol.3, no.1, pg 37~50, 2006.(In Chinese))
4. 許棟樑, 陳大仁, “筆記型電腦產業新產品導入流程標準及設計”, *科技管理學刊 中華民國科技管理學會*, 第 11 卷第 1 期, 95 年 3 月, 31-62 頁. (Sheu, D. Daniel and D. R. Chen, “Benchmarking and Design of New Product Introduction Process for Notebook Computer Industry”, *Journal of Technology Management*, Vol. 11, Issue 1, pp 31-62.) March 2006.(In Chinese))
5. 許棟樑, 陳瑞陽, 劉志明, “智慧型代理人機制的產品形成及使用週期問題回饋架構”, *科技管理學刊 中華民國科技管理學會*, 第 11 卷第 1 期, 95 年 3 月, 1-30 頁 (Sheu, D. Daniel, R.Y. Chen, and C.M. Liu, “Agent-based problem feedback mechanism for product formation and usage life cycle”, *Journal of*

- Technology Management, Vol 11, issue 1, pp 1-30.) (TM0502-05), March 2006. (In Chinese))
6. 許棟樑, 陳大仁, “整合性優質設計架構”, 科技管理學刊 第9卷第四期, 93年12月, pp 149-176 (Sheu, D. Daniel and D. R. Chen, “A framework for integrated Design For eXcellence (DFX)”, Journal of Technology Management, vol. 9, No. 4, pp. 149-176, Dec. 2004. (In Chinese))
 7. 許棟樑, 柳昌良, “筆記型電腦系統組裝線流程分析”, 工業工程學刊 2004 年第 21 卷第二期, pp. 203-212 (Sheu, D. Daniel and Chang-Liang Liu, “Manufacturing Process Analysis for Notebook Computer System Assembly Lines”, Journal of the Chinese Institute of Industrial Engineers, pp. 203-212, No. 2, Vol 21, 2004.(In Chinese)), (EI) (In Chinese))
 8. 許棟樑, 謝豪駿, “台灣筆記型電腦業製造管理標準: 以印刷電路板組裝為例”, 機械工業雜誌, 2003 年 1 月. 238 期 (Sheu, D. Daniel and Ander Shieh, Benchmarking Manufacturing Management for Taiwan's Notebook Computer Industry: Printed Circuit Board Assembly”, Journal of Mechatronic Industry, January, 2003.(In Chinese))
 9. 林俊仁, 許棟樑, 黃乾怡, “運用剖面 X-ray 技術於鉅點品質檢測之可行性分析”, 機械工業雜誌, 238 期, 2003/1. (Lin, Alan, D. Daniel Sheu, and C.Y. Huang, “Feasibility study for X-Ray cross-sectional technology in solder point quality inspection”, Journal of Mechatronic Industry, Issue 238, January 2003(In Chinese))
 10. 許棟樑, 劉小君, “筆記型電腦廠倉儲及廠內物料動線分析”, pp 27~38,機械工業雜誌, 2003 年 1 月; (Sheu, D. Daniel and S. J. Liu, “Warehouse and In-plant Material Flow Analyses for Notebook Computer Plants”, Mechanical Engineering Magazine, January, 2003. ISSN 1680-9106 (In Chinese))
 11. 許棟樑, 張政楠, “筆記型電腦業管理評估系統”, 工業工程雜誌, Vol 2, No. 2, 2002 年 12 月; (Sheu, D. Daniel and Cheng-Nan Chang, “Management Assessment System for Notebook Computer Industry”, pp 27~38, vol. 2, No. 2, 2003/12, Industrial Engineering Magazine, Chinese Institute of Industrial Engineers, (In Chinese))
 12. 許棟樑, 吳振寧, 孫銘新 “半導體設備管理指標模型”, 工業技術研究院 工業安全科技季刊: 半導體設備特刊, pp.35~43, 2002/3. (Sheu, D. Daniel, “Semiconductor Equipment Management Index Model”, Industrial Safety Technology, pp.35~43, March 2002/3. (In Chinese))
 13. 許棟樑, 吳振寧, “台灣半導體廠設備管理指標模型建立與評比:1998-99 年成果”, 機械工業雜誌, 202 期, pp. 94~104, 2000/1. (Sheu, D. Daniel and John Wu, “Equipment Management Model-Building and Benchmarking for IC Fabrication Plants in Taiwan: the 1998-99 Survey” , Journal of the Mechatronic Industry, Issue 202, pp. 94~104, Jan. 2000. (ISSN 0255-0075(In Chinese)))

Conference Papers

International Conferences:

1. Sheu, D. Daniel and Mike Hou, " TRIZ-based Systematic Device Trimming: Theory and Application ", Proceedings of TRIZ Future Conference 2012.(European TRIZ Conference), pp. 227-250. 24-26 October 2012,, Lisbon, Portugal.
2. Sheu, D. Daniel, Eric Tsai, and Hsin Rau, "Integration between Cause-effect Chain Analysis and Root Contradiction Analysis and Its Applications", the 3rd International Conference on Systematic Innovation, 2012/7/10-12, Seoul, South Korea.
3. Sheu, D. Daniel and Yu-Chih Kuo, “Using TRIZ to Solve Lead Frame Delamination Problem in Component Packaging”, the 3rd International Conference on Systematic Innovation, 2012/7/10-12, Seoul, South Korea.
4. Sheu, D. Daniel and Po-Hsuan Hung , “TRIZ-based Failure Analysis and Problem Solving Using Wafer Breakage as an Example”, the 3rd International Conference on Systematic Innovation, 2012/7/10-12, Seoul, South Korea.
5. Sheu, D. Daniel and Mei Hui Tsai, “Performance-oriented Perception Relationship Analysis for Organizational Conflict Identification and Resolution”, the 3rd International Conference on Systematic Innovation, 2012/7/10-12, Seoul, South Korea. (In Chinese)

6. Sheu, D. Daniel and Chun Ting Hou, "A Proposed Process for Systematic Device Trimming toward Innovative Problem Solving", The 41th International Conference on Computers and Industrial Engineering, Los Angeles, CA, USA, Oct. 23-26, 2011.
7. Sheu, D. Daniel and Jealousy Hong, "TRIZ Equipment Re-Design Method to Prevent Wafer Breakage Problems in Chemical Mechanical Polishing Processes", the 2nd International Conference on Systematic Innovation, 2011/5/26-28, Shanghai, China
8. Sheu, D. Daniel, Yu Ting Huang, and Chia Hung Chen, "Automatic Identification of Relevant Technical Trends using Function-Attribute Relationships and Cosine Mapping", the 2nd International Conference on Systematic Innovation, 2011/5/26-28, Shanghai, China
9. Sheu, D. Daniel and Ming-Chih Tsai, "Cause Effect and Contradiction Chain Analysis for conflict Identification and Problem Solving", the 2nd International Conference on Systematic Innovation, 2011/5/26-28, Shanghai, China
10. Dedy Suryadi and D. Daniel Sheu, "Machine-Process Grouping Algorithm Using Particle Swarm Optimization", the 17th IEEE International Conference on Industrial Engineering & Engineering Management, Oct. 30-Nov.1, 2010, Xiamen, Fujian, China (EI indexed)
11. Sheu, D. Daniel and Yun Man Lin, "TRIZ-based Component Trimming Process and Tool", 2010 International Conference on Value Engineering, Oct. 29-30, 2010, Taipei, Taiwan
12. Sheu, D. Daniel and H.K. Lee, "Classification and Process of Systematic Innovation", the First International Conference on Systematic Innovation, 2010/1/22-25, Hsinchu, Taiwan.
13. Sheu, D. Daniel and Chao-En Cheng, "Time-based Process Grouping Using Dendrogram", The 39th International Conference on Computers and Industrial Engineering, Troyes, France, July 6-8, 2009.
14. Sheu, D. Daniel and H.K. Lee, "A Proposed Process for Systematic Innovation", 2009 Cross-Strait Conference on Systematic Innovation, Jan. 17, 2009, Hsinchu, Taiwan.
15. Sheu, D. Daniel and Xavier Hong, "Intelligent Repair Analysis for Backward Design: Using Cellular Phones as Examples", The 9th Asia Pacific Industrial Engineering and Management Systems Conference, Nusa Dua, Bali, Indonesia, December 3-5, 2008.
16. Sheu, D. Daniel, Pang-Yen Yu, and Roger Chen, "Inventive Principles and Contradiction Matrix for Semiconductor Industry: Chemical Mechanical Polishing", the 38th International Conference on Computers and Industrial Engineering, Beijing, China, Oct. 31-Nov 2, 2008.
17. Sheu, D. Daniel and David Lee, "Computer-Aided Problem-solving Assistant for Su-Field Analysis", The 4th Japan TRIZ Symposium, September 10-12, 2008, Laforet Biwako, Moriyama, Shiga, Japan. (Also invited to appear in 2008 European TRIZ Conference, 2008/11/05-2008/11/07, University of Twente, Enschede, The Netherlands.)
18. Sheu, D. Daniel and Jack Hsueh, "Analysis of operator-machine configuration for single and multi-processor machines", International Conference on Intelligent Manufacturing and Logistics Systems, IML 2007, Feb. 25-27, 2008, Waseda University, Kitakyushu, Japan
19. Sheu, D. Daniel, "Some Insights on TRIZ Body of Knowledge", The 8th Asia Pacific Industrial Engineering and Management Systems Conference, Dec. 9-12, 2007, Ambassador Hotel, Kaohsiung, Taiwan
20. Sheu, D. Daniel and Yi-Chin Cho, "Equipment Capacity Loss Management For Re-current Processes", The 37th International Conference on Computers and Industrial Engineering, Alexandria, Egypt, October 20-23, 2007.
21. Jealousy Hong and D. Daniel Sheu, "Cost Model Analysis for Interruptive Production in I.C. Fabs", International Conference on Intelligent Manufacturing and Logistics Systems, IML 2007, Feb. 26-28, 2007, Waseda University, Kitakyushu, Japan
22. Sheu, D. Daniel and Shi-Zong Luo, "A Delivery-oriented Dispatching Method Using Weighted Turn Ratio", International Conference on Intelligent Manufacturing and Logistics Systems, IML 2007, Feb. 26-28, 2007, Waseda University, Kitakyushu, Japan
23. Sheu, D. Daniel and Frank Hsu, "Manpower Standard and Optimization for Equipment Preventive Maintenance", pp 1133-1142, Proceedings of the 7th Asia Pacific Industrial Engineering and Management Systems Conference, 17-20 December 2006, Bangkok, Thailand
24. Hui-Ming Wee, Wen-Chang Huang, Ling-Lang Tang, and D. Daniel Sheu, "Life cycle cost and profit assessment for notebook industry operations in Taiwan", The 5th Australian Conference on life cycle assessment, Nov. 22-26, 2006, Melbourne, Australia.
25. H.M. Wee and D. Daniel Sheu, "The use of life cycle cost and profit assessment to improve operations and SCM of electronic products", the 36th International Conference on Computers and Industrial Engineering, Howard Hotel, Taipei, Taiwan, June 20-23, 2006.

26. Sheu, D. Daniel and Chia-Jo Huang , “The Study of Order Releasing Policy and Dispatching Rule in Photolithographic Process under the Restriction of Critical Layer in Semiconductor Manufacturing” , the 36th International Conference on Computers and Industrial Engineering, Howard Hotel, Taipei, Taiwan, June 20-23, 2006.
27. Rui-Yang Chen, Sheu, D. Daniel, and Chih-Ming Liu, “Intelligent agent-based knowledge classification system for product formation and usage life cycle”, the 36th International Conference on Computers and Industrial Engineering, Howard Hotel, Taipei, Taiwan, June 20-23, 2006.
28. Sheu, D. Daniel and P.K. Hung, “New Product Introduction Performance Measurement Mechanism & Evaluating System for Notebook Computer Industry”, Workshop on Intelligent Manufacturing & Logistics Systems, Waseda University, Kitakyushu, Japan, August 2~4, 2005.
29. Sheu, D. Daniel, F. N. Wang, and D. R. Chen, “Integrated Performance Measurement System for Design for Excellence”, Workshop on Intelligent Manufacturing & Logistics Systems, Waseda University, Kitakyushu, Japan, August 2~4, 2005.
30. Sheu, D. Daniel, “Overall Input Efficiency and Total Equipment efficiency”, the 6th Asia Pacific Industrial Engineering and Management Society Conference (APIEMS) and the 8th Asia Pacific Division Meeting of the International Foundation of Production & Research, Makati City, Manila, Philippines, December 4 - 7, 2005.
31. Sheu, D. Daniel and Jun Yuan Kuo, “Forecasting Preventive Maintenance Model for Semiconductor Equipment Preventive Maintenance”, the 6th Asia Pacific Industrial Engineering and Management Society Conference (APIEMS) and the 8th Asia Pacific Division Meeting of the International Foundation of Production & Research, Makati City, Manila, Philippines, December 4 - 7, 2005.
32. Sheu, D. Daniel and D. R. Chen, “Backward Design and Cross-Functional Design Management System”, Proceedings of the 35th International Conference on Computers and Industrial Engineering, Istanbul, Turkey, June 19-22, 2005.
33. Sheu, D. Daniel and D. R. Chen, “Forward and Backward Design Analyses – An integrated approach”, The Fifth Asia-Pacific Industrial Engineering and Management Systems Conference & The Seventh Asia-Pacific Division Meeting of the International Foundation of Production Research, ANA Hotel, Gold Coast, Australia, December 12-15, 2004
34. Sheu, D. Daniel and C.Y. Chuang, “A Hit-Rate-Based Dispatching Method Based on Waiting Time Allocation Scheme”, Proceedings of the 33rd International Conference on Computers and Industrial Engineering, Jeju, Korea, March 25-27, 2004.
35. Sheu, D. Daniel and Gervin Chen, “Line Balance Analyses for System Assembly Lines in a Notebook Computer Plant”, Proceedings of the 32nd International Conference on Computers and Industrial Engineering, pp. 680-687, Limerick, Ireland, August 11-13, 2003.
36. Gilbert Lu and D. Daniel Sheu, “A Study on Equipment Maintenance Strategy for wafer fabs”, The Fourth Asia-Pacific Conference on Industrial Engineering and Management Systems, December 18-20, 2002, Taipei, Taiwan, R.O.C.
37. Chia-Jo Huang and D. Daniel Sheu, “A Framework for Semiconductor Equipment Planning”, The Fourth Asia-Pacific Conference on Industrial Engineering and Management Systems, December 18-20, 2002, Taipei, Taiwan, R.O.C.
38. Sheu, D. Daniel and Jeff Lin, “Equipment Management Strategy Under Machine Capacity Loss”, the International Conference on Global Supply Chain Management, Beijing, China, August 5-7, 2002
39. Sheu, D. Daniel and Tone-Cheng Wang, “Manufacturing Process Analysis for Circuit Board Assembly Lines in Notebook Computer Plants”, the 5th Annual International Conference on Industrial Engineering - Theory, Applications and Practice, December 13-15, 2000, Hsinchu, Taiwan (Also: Best student paper award winner)
40. Chia-Jo Huang and D. Daniel Sheu, “A fuzzy AHP evaluation of manufacturing management performance for notebook computer plants in Taiwan”, the 5th Annual International Conference on Industrial Engineering - Theory, Applications and Practice, December 13-15, 2000, Hsinchu, Taiwan
41. Sheu, D. Daniel, Vincent Sun, and John Wu, “Equipment Management Benchmarking for Integrated Circuit Fabrication Plants in Taiwan”, The 27th International Conference on Computers & Industrial Engineering, October 11-13, 2000, Beijing, China
42. W.C. Chiu and D. Daniel Sheu, “Optimization Strategies for Component Placement: Using Fuji CP6 as an Example”, the Six International Conference on Automation Technology, May 9-11, 2000. Taipei, Taiwan
43. Sheu, D. Daniel and John Wu, “Equipment Management Benchmarking for Integrated Circuit Fabrication Plants in Taiwan: the 1998-99 Survey”, The Six International Conference on Automation Technology, May 9-11, 2000. Taipei, Taiwan.

44. Sheu, D. Daniel and Shiao-Lan Peng, "Assessing Manufacturing Management Performance for Notebook Plants in Taiwan", The 4th Annual International Conference on Industrial Engineering-Theories, Applications and Practices. Nov. 17-20, 1999, San Antonio, Texas, U.S.A. Also appear in Proceedings of Chinese Institute of Industrial Engineers. National Conference 1999.
45. Sheu, D. Daniel, J. Lin, and Peter Liao, "Benchmarking Manufacturing Management for Taiwan's I.C. Packaging Plants", The 4th Annual International Conference on Industrial Engineering Theories, Applications and Practices. Nov. 17-20, 1999, San Antonio, Texas, U.S.A.
46. Sheu, D. Daniel and Ander Shieh, "Benchmarking Manufacturing Management for Taiwan's Notebook Industry: Printed Circuit Board Assembly", The 3rd Annual International Conference on Industrial Engineering Theories, Applications and Practices. Dec. 28-31, 1998. Hong Kong.
47. Sheu, D. Daniel and Melcruise Tseng, "Benchmarking Process Management for Taiwan's I.C. Fabrication Plants: Using Photolithography as An Example", Joint Conference of the fifth International Conference on Automation Technology and 1998 International Conference of Production Research, July 20-22, 1998, Taipei, Taiwan.
48. Sheu, D. Daniel, "A Flexible Circuit Identification System For Inkjet Pen Manufacturing", Autofact '97, SME. November 3-6, 1997, Detroit, Michigan, U.S.A. Also appear in: "Proceedings of the Eighth International Manufacturing Conference", pp. 334-346. 12-14 May, 1998, Singapore.
49. Sheu, D. D., "A Robust Board Identification System For Printed Circuit Board Manufacturing", pp. 547-554, The fourth International Conference on Automation Technology – Automation 96, Hsinchu, Taiwan, R.O.C., July 8-11, 1996.
50. Sheu, D. Daniel and Tracy Reinekin, "A Model For Design And Reliability Analysis For Binary-Coded Identification System", pp. 517-524, Proceedings of the 1993 Winter Motorola AMT Symposium, Feb. 23-24, 1993, Phoenix, AZ, USA.
51. Sheu, D. Daniel and Tracy Reinekin, "Technology Assessment And Progressive Reading For The TSD Board Identification System", pp. 274-280b, Motorola AMT Symposium, July 29-30, 1992, Schaumburg, IL, USA.
52. Sheu, D. Daniel "A Generic Approach to Model the MCG's PCB Line", Simulation News, winter, 1991, Corporate Manufacturing Systems, Motorola, Inc.
53. Sheu, D. Daniel and Paul van Tellingen, "The Modular Design Of And Results On The MCG Board Assembly Line Simulation", Simulation/Scheduling Conference, June 12, 1991, Schaumburg, IL. Motorola Inc.
54. Sheu, D. Daniel, "Model-based 3-D Object Recognition Using Generalized Features", Vision '90 Conference, Nov. 12-15, 1990, Detroit Michigan, Society of Manufacturing Engineers.
55. Sheu, D. D. and W. K. George, "Measurement of Velocity Profiles in a Simple Bifurcation", the Thirty Seventh Annual Meeting of the American Physical Society, Providence, Rhode Island, Nov. 18-20, 1984.

Domestic Conferences

1. 許棟樑, 張家瑋, 洪柏璿, "功能-屬性-效應知識庫之研究", 2012 工業工程與管理年會暨學術研討會, 2012/12/15, 台灣彰化. (Sheu, D. Daniel, Willie Chang and Jealousy Hong, "A Study on Function-Attribute-Effect Knowledge", 2012 Annual Meeting of Chinese Institute of Industrial Engineering & Management, Da-Yeh University, Chung Hua County, Taiwan (In Chinese))
2. 許棟樑, 陳幸志, "基於萃智理論的流程分析與修剪方法", 2013 系統性創新研討會暨第五屆中華系統性創新學會年會接受, 2013/01/05, 台灣中壢, 中原大學. (Sheu, D. Daniel and Denny Chen, "A TRIZ-based Process Analysis and Trimming Method", 2013 Systematic Innovation Conference and Annual Meeting of the Society of Systematic Innovation. 2013/01/05, Chung-Li, Taiwan)
3. 許棟樑, 陳威呈, "萃智功能分析與功能關係分析的解答指引: 新的解題模式", 2013 系統性創新研討會暨第五屆中華系統性創新學會年會接受, 2013/01/05, 台灣中壢, 中原大學. (Sheu, D. Daniel and Leo Chen, "Solution Directives for Function Analysis and Function Relation Analysis: A Set of New Problem Solving Approach", 2013 Systematic Innovation Conference and Annual Meeting of the Society of Systematic Innovation. 2013/01/05, Chung-Li, Taiwan)
4. 許棟樑, 呂宗興, "電腦輔助數理化萃智趨勢辨識工具", 2012 中華萃思學會學術與實務研討會暨第五屆海峽兩岸創新方法研討會, 2012/11/10, 台灣新竹, 中華大學. (Sheu, D. Daniel and Tsung Hsing Lu,

- " Computer Aided Identification of Relevant Trends for Problem Solving", 2012 Annual Meeting of Taiwan TRIZ Association, 2012/11/10, Hsinchu, Taiwan,)
5. 許棟樑, 洪柏璿, "萃智創新製程解題手法: 離心真空裝置", 2012 SME 全國精密製造研討會暨國際製造工程學會中華民國分會年會.2012/11/09 台灣台中 勤益科技大學 (Sheu, D. D. and Jealousy Hong, "TRIZ Systematic Process Problem Solving: Centrifugal Vacuum Mechanism", 2012 National Precision Manufacturing Conference and Annual Meeting of the Society Of Manufacturing Engineers, Taipei Chapter 242, Taichung, Taiwan, 2012/11/09.(In Chinese))
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1. 2011.05.27, “Systematic Component Trimming for Breakthrough Problem Solving”, The 2nd International Conference on Systematic Innovation, Shanghai, China (SJTU) , 2011/5/26-28
2. 2010.10.29 “TRIZ-based Trimming Process and Tools”, 2010 International Conference on Value Engineering, Taipei, Taiwan, 2010/10/29-30.
3. 2010.10.26 “TRIZ and Systematic Innovation: Overview of knowledge, Status & Development Strategies in Taiwan and beyond”, Malaysia TRIZ Conference, Kuala Lumpur, Malaysia
4. 2010.09.16: “Systematic Innovation and TRIZ: Utilizing tools to enhance innovation capabilities”, The 3rd Innovation Summit, Shanghai, China
5. 2010.05.29: “Systematic Innovation: Integrating TRIZ-Lean-6 Sigma for Next Competitive Advantage”, 2010 Cross-Strait Conference on Systematic Innovation, Hsinchu, Taiwan
6. 2010.03.11. “Systematic Innovation and TRIZ: Status & Prospects in Taiwan and Beyond”, Global TRIZ Conference 2010 in Korea (Korean TRIZCON 2010. Seoul, Korea, 2010.03.11-12)
7. 2009.10.22: “Systematic Innovation: A Complete Path to Independent Innovation” (系統性創新:自主創

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8. 2009.8.20: "A Proposed Classification & Process of Systematic Innovation", the 3rd International Conference on Computer-aided Innovation, Harbin, Heilungjiang, China

Invited Keynote Speeches in Domestic Conferences: (Since 2008)

1. 2013.01.05: "Systematic Opportunity Identification for Innovative Products and Services: The Next Competitive Edge", 2013 Systematic Innovation Conference and Annual Meeting of the Society of Systematic Innovation. ("系統化創新產品與服務機會辨識: 下一個競爭優勢", 2013 系統性創新研討會暨中華系統性創新學會年會, 台灣中壢)
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3. 2011.01.15: "Knowledge Insights on TRIZ Systematic Innovation & Research/Application Directions", 2011 Annual Systematic Innovation Meeting, Chunghua County, Taiwan (萃智系統性創新知識洞察與研究/應用方向, 2011 系統性創新研討會暨中華系統性創新學會年會)
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AWARDS

1. 2012/7: **Gold Medal Award**, 2nd Global Competition on Systematic Innovation, July 10-12, 2012, Project Title: "**Vacuum Device Mechanism for Wafer Breakage Avoidance**", By. D. Daniel Sheu and Jealousy Hong
2. 2012/7: **Gold Medal Award**, 2nd Global Competition on Systematic Innovation, July 10-12, 2012, Project Title: "**Using TRIZ to Solve Lead Frame Delamination in Component Package**", By. D. Daniel Sheu and Yu-Chih Kuo
3. **2011/5: Gold Medal Award and the best innovation project**, 1st Global Competition on Systematic Innovation, May 26-28, 2011. Project Title: "**Self-closing imbedded slit valve**", By D. Daniel Sheu & Mike Hou.
4. **2011/5: Gold Medal Award**, 1st Global Competition on Systematic Innovation, May 26-28, 2011. Project Title: "**Foldable Wheel**", By D. Daniel Sheu & Sangji Li

5. **2004: The International Award of Merit, Society of Manufacturing Engineers**
6. **2002: MOE award of outstanding Industry-academia collaboration**
7. **2000 & 2002: Society of Manufacturing Engineers: President award of outstanding services.**
8. 1996 & 2001: First-class researcher award, National Science Council
9. 1990-1994: Member of (Global) Manufacturing Excellence, Motorola, Inc.