Refereed Journal papers: (2008 - 2013)

1. **S. G. Chen**. (2013). Optimal double-resource assignment for the robust design problem in multistate computer networks, *Applied Mathematical Modelling*, **In Press**. (**SCI**, Impact factor: **1.579**, Rank: **12**/90). NSC 101-2221-E-236-006.

2. **S. G. Chen**. (2013). Bayesian approach for optimal PV system sizing under climate change, *Omega*, 41(2): 176-185. (**SCI**, Impact factor: **3.338**, Rank: **2**/75).

3. **S. G. Chen**, Y. K. Lin. (2012). Search for all minimal paths in a general large flow network, *IEEE Transactions on Reliability*, 61(4): 949-956. (**SCI**, Impact factor: **1.285**, Rank: **100**/245). NSC 100-2221-E-236-003.

4. **S. G. Chen**. (2012). An optimal capacity assignment for the robust design problem in capacitated flow networks, *Applied Mathematical Modelling*, 36(11): 5272-5282 (**SCI**, Impact factor: **1.579**, Rank: **12**/90). NSC 100-2221-E-236-003

5. **S. G. Chen**. (2012). Using Extreme Value Theory to Optimally Design PV Applications Under Climate Change, *Journal of Modern Mathematics Frontier*, 1(1): 6-8.

6. **S. G. Chen**. (2012). Fuzzy-scorecard based logistics management in robust SCM, *Computers & Industrial Engineering*, 62(3): 740-745 (**SCI**, Impact factor: **1.543**, Rank: **12**/38). NSC 99-2221-E-236-009

7. **S. G. Chen**. (2012). An efficient sizing method for a stand-alone PV system in terms of the observed block extremes, *Applied Energy*, 91(1): 375-384 (**SCI**, Impact factor: **3.915**, Rank: **14**/79). NSC 99-2221-E-236-009.

8. **S. G. Chen**, C. Y. Lin. (2011). A Case Study on Bayesian performance evaluation for ERPS, *Journal of Tungnan University*, 36: 167-177. NSC 99-2221-E-236-009.

9. **S. G. Chen**. (2010). Search for All Minimal Paths in a General Directed Flow Network with Unreliable Nodes, *International Journal of Reliability and Quality Performance*, 2(2): 63-70. NSC 99-2221-E-236-009.

10. **S. G. Chen**. (2010). Optimal Staffing in a SOA Company, *International Journal of Operations Research*, 7(3): 15-22. NSC 99-2221-E-236-009.

11. **S. G. Chen**, Y. K. Lin. (2010). An approximate algorithm for the robust design in a stochastic- flow network, *Communications in Statistics Theory and Methods*, 39: 2440-2454. (**SCI**, Impact factor: **0.406**, Rank: **88**/100).

12. **S. G. Chen**, Y. K. Lin. (2009). On performance evaluation of ERP systems with fuzzy mathematics, *Expert systems with applications*, 36 (3) 6362-6367. (**SCI**, Impact factor: **2.596**, Rank: **1**/64).

13. **S. G. Chen**, Y. K. Lin. (2008). An evaluation method for enterprise resource planning systems, *Journal of the Operations Research Society of Japan*, 51 (4) 299-309. (**SCI**, Impact factor:**0.200**, Rank:**58**/60)

Refereed Conference papers: (2008-2013)

1. **S. G. Chen**. (2013). On Reliability Evaluation of Distributed Telecommunication Networks, In: *2013 The 8th International Conference on Queuing Theory and Network Applications*, Taichung, Taiwan, 30 Jul. - 2 Aug. 2013. NSC 101-2221-E-236-006.

2. **S. G. Chen**. (2013). Probabilistic Evaluation of a Business Process Performance, In: *2013 The 4th International Asia Conference on Industrial Engineering and Management Innovation*, Taipei, Taiwan, 18 Jul. 2013. (**EI**) NSC 101-2221-E-236-006.

3. **S. G. Chen**. (2013). On Reliability Evaluation of Flow Networks with Time-Variant Quality Components, In: *IIE Asia Conference 2013*, Taipei, Taiwan, 18-20 Jul. 2013. (**EI**) NSC 101-2221-E-236-006.

4. **S. G. Chen**. (2013). Search for all MCs with backtracking, In: *The 19th ISSAT International Conference on Reliability and Quality in Design*, Honolulu, Hawaii, USA, 5-7 Aug. 2013 NSC 101-2221-E-236-006.
5. **陳星光，江維德，顏宏鈞**，林彥廷 (2013). 以類神經網路實作職業棒球隊在單一對戰組合的戰績預測--以美國職棒洛杉磯道奇隊與舊金山巨人隊為例, In: *2013 第六屆 管理知識與技術提升學術與實務研討會*, New Taipei City, Taiwan, 17 May. 2013.

6. **陳星光**，許智皓，陳奕劭 (2012). 分散式電話客服中心的最佳話務網路頻寬規劃, In: *2012 工業工程學會年會暨學術研討會*, Changhua , Taiwan, 15 Dec. 2012, pp. A68-A72. NSC 101-2221-E-236-006

7. **陳星光**，陳奕劭，許智皓 (2012). 企業流程的總體與個別人力績效評比, In: *2012 工業工程學會年會暨學術研討會*, Changhua , Taiwan, 15 Dec. 2012, pp. I32-I36. NSC 101-2221-E-236-006

8. **S. G. Chen**. (2012). Improving Business Process Performance without Increasing Cost, In: *Proceedings of IEEE IEEM 2012*, Hong Kong, 10-13 Dec. 2012, pp. 141-145. (**EI**) NSC 101-2221-E-236-006.

9. **S. G. Chen**. (2012). Optimal task assignment for a process-based business, In: *Proceedings of APARM 2012*, Nanjing, China, 1-3 Nov., 2012, pp. 581-588. (**EI**) NSC 101-2221-E-236-006.

10. **S. G. Chen**. (2012). Right person on the right place – A business process perspective, In: *Proceedings of the 18th ISSAT International Conference on Reliability and Quality in Design*, Boston, Massachusetts, U.S.A., 26-28 Jul., 2012, pp. 296-299. NSC 100-2221-E-236-003.

11. **S. G. Chen**. (2012). Component quality planning on a computer network. In: *Proceedings of the IIE Asian Conference 2012*, Singapore, 28-30 Jun. 2012 pp. 216-220. **(Best Paper Award)** NSC 100-2221-E-236-003

12. **陳星光,** 許智皓, 陳奕劭 (2012). 企業流程的最佳人力派任, In: *2012第八屆台灣作業研究學會年會暨第十一屆中華決策科學學會年會與學術研討會*, Taichung, Taiwan, 8 Jun. 2012. NSC 100-2221-E-236-003

13. **陳星光,** 許智皓, 陳奕劭 (2012). 強健式最佳話務網路頻寬規劃, In: *2012資訊管理學術與實務研討會*, Taipei, Taiwan, 29 May 2012. NSC 100-2221-E-236-003

14. **陳星光,** 陳奕劭, 許智皓 (2012). IT化企業流程人員績效差異的評估與探討, In: *2012 資訊管理學術與實務研討會*, Taipei, Taiwan, 29 May 2012. NSC 100-2221-E-236-003

15. **陳星光, 王寵惠, 江維德** (2012). **計分卡式群組人員績效評估法** In: *2012 International Conference on The Development and Practice of Enterprise Resource Management*, Tao Yuan, Taiwan, 16 Jan. 2012. NSC 100-2221-E-236-003

16. **S. G. Chen**. (2011). Identification of Extreme Climate Cycles and Trends from Weather Time Series for Renewable Energy Applications In: *Joint Meeting of the 2011 Taipei International Statistical Symposium and 7th Conference of the Asian Regional Section of the IASC*, Taipei, Taiwan, 16-19 Dec. 2011. NSC 100-2221-E-236-003

17. 陳星光, 王伶, 王寵惠, 江維德 (2011). 允許失效情況下的最佳話務網路頻寬規劃－以國內銀行業客服中心為例, *2011 中國工業工程學會年會暨兩岸工業工程與管理學術研討會*, Hsin-Chu, Taiwan, 10 Dec. 2011, pp. 1-5. NSC 100-2815-C-236-005-E.

18. S. G. Chen. (2011). On Work Performance for The Labor-Intensive Manufacturing, In: *Proceedings of IEEE IEEM 2011*, Singapore, 7-9 Dec., 2011. (**EI**) NSC 100-2221-E-236-003

19. 陳星光, 許凱威 (2011). 以 AHP 實作鋅-空氣燃料電池的方漏設計, *第六屆氫能與燃料電池學術研討會*, ILan, Taiwan, 28-29 Oct, 2011, pp. 1-7. NSC 100-2221-E-236-003.

20. S. G. Chen. (2011). Performance evaluation for ERPS in terms of individual

performance, In: *Proceedings of the 17th ISSAT International Conference on Reliability and Quality in Design*, Vancouver B.C., Canada, 4-6 Aug., 2011, pp. 294-298. NSC 99-2221-E-236-009.

21. 陳星光* 羅宇文 謝承諺 李廷威 林嵩凱 王明鈞 (2011). E 化小企業的經營績效評估—以小型配銷公司為例, *2011 年第七屆台灣作業研究學會年會暨學術研討會*, Taipei, Taiwan, 10 June, 2011, pp. 577-586. NSC 99-2221-E-236-009.
22. 陳星光, 林建佑 (2011). ERPS 的績效評估--以汽車零件供應商的訂單處理流程為例, *2011 資訊管理學術與實務研討會*, Taipei, Taiwan, 24 May, 2011, pp. 1-6. **(Best Paper Award)** NSC 99-2221-E-236-009.
23. S. G. Chen, W. H. Yu. (2011). On Performance Evaluation for ERPS, *Proceedings of ICERM 2011*, Taipei, Taiwan, Jan. 18, 2011, pp. 490-502. NSC 99-2221-E-236-009.
24. S. G. Chen. (2010). Optimal Capacity Planning and Performance Evaluation in FMS, In: *Proceedings of ICMES 2010*, Tainan, Taiwan, 16-18 Dec., 2010, pp. 138-143. NSC 99-2221-E-236-009.
25. S. G. Chen. (2010). Optimal Device Planning and Performance Evaluation in AMS, In: *Proceedings of APARM 2010*, Wellington, New Zealand, 2-4 Dec., 2010, pp. 113-120. (**EI**) NSC 99-2221-E-236-009.
26. S. G. Chen. (2010). Generating Large Scale Undirected Graph for Solving Flow Network Problems, In: *Proceedings of IEEE IEEM 2010*, Macau, 7-10 Dec., 2010, pp. 1334-1338. (**EI**) NSC 99-2221-E-236-009.
27. S. G. Chen. (2010). Optimal Sizing Stand-alone PV Systems Based on The Observed Extremes Over a Threshold, In: *Proceedings of TENCON 2010*, Fukuoka, Japan, 21-24 Nov., 2010, pp. 84-89. (**EI**) NSC 99-2221-E-236-009.
28. S. G. Chen. (2010). Optimal Logistic Planning in Robust Supply Chain Management, In: *Proceedings of The 40th International Conference on Computers & Industrial Engineering*, Awaji Island, Japan, 26-28 Jul., 2010, pp. 1-6. (**EI**) **(Best Paper Award)** NSC 98-2221-E-236-011.
29. S. G. Chen. (2010). Optimal Network Planning in Robust Two Site's Communication, In: *Proceedings of The 2010 International Symposium on Information Theory and its Applications*, Taichung, Taiwan, 17-20 Oct., 2010, pp. 337-342. (**EI**) NSC 99-2221-E-236-009.
30. S. G. Chen, Y. C. Guo, W. Z. Zhou. (2010). Search for all minimal paths with backtracking, In: *Proceedings of the 16th ISSAT International Conference on Reliability and Quality in Design*, Washington DC, USA, 5-7 Aug., 2010, pp. 425-429. NSC 98-2221-E-236-011.
31. S. G. Chen. (2009). Performance Evaluation for an ERP System in Case of

System Failures, In: *Proceedings of the 16th ISPE International Conference on Concurrent Engineering*, Taipei, Taiwan, 20-24 Jul., 2009, pp. 361-369. (**EI**). NSC 98-2221-E-236-011.

32. S. G. Chen, Y. S. Wang, Y. M. Xue, W. H. You, J. Y. Lin, K. W. Xu. (2009). Identification of climate cycles from volatile time series of solar radiation in PV system design, In: *Proceedings of the 15th ISSAT International Conference on Reliability and Quality in Design*, San Francisco, California, U.S.A., 6-8 Aug., 2009, pp. 467-469.
33. S. G. Chen. (2009). Generating Large Scale Network for Solving the Flow Network Problems, In: *Proceedings of 2009 IEEE International Conference on Industrial Engineering and Engineering Management*, Hong Kong, 8-11 Dec., 2009, pp. 1728-1732. (**EI**). NSC 98-2221-E-236-011.
34. S. G. Chen. (2009). Optimal Sizing Stand-alone PV Systems in Terms of Extreme Value Theory, In: *Proceedings of IEEE TENCON 2009*, Singapore, 23-26 Nov., 2009. (**EI**). NSC 98-2221-E-236-011.
35. S. G. Chen. (2009). A Green Design of Energy-Saving Transportation and Material Handling Systems, In: *Proceedings of International Conference on Manufacturing and Engineering Systems*, National Formosa University, 17-18 Dec., 2009, pp.175-178. NSC 98-2221-E-236-011.
36. S. G. Chen. (2009). A Green Design of Indoor Skylight for the Corporation Office and Factory, In: *Proceedings of International Conference on Manufacturing and Engineering Systems*, National Formosa University, 17-18 Dec., 2009, pp. 179-183. NSC 98-2221-E-236-011.
37. 游文豪, 陳星光. (2009). 整合X3D虛擬實境技術的數位學習系統實作研究, In: *Proceedings of 2009 Technology and Management Conference*, 台北科技大學, 25 Sep., 2009. NSC 98-2221-E-236-011.
38. 許凱威, 陳星光. (2009). 鋅－空氣燃料電池防漏設計研究, In: *Proceedings of 2009 Technology and Management Conference*, 台北科技大學, 25 Sep., 2009. NSC 98-2221-E-236-011.
39. S. G. Chen, Y. K. Lin. (2008). Performance analysis for enterprise resource planning systems, In: *Proceedings of 2008 IEEE International Conference on Industrial Engineering and Engineering Management*, Singapore, 8-11 Dec., 2008, pp. 63-67. (**EI**).
40. S. G. Chen, Y. K. Lin. (2008). A fuzzy linguistic performance index for enterprise resource planning systems, In: *Proceedings of International Conference on Business and Information*, Seoul, Korea, 7-9 July, 2008. **(Best Paper Award).**
41. S. G. Chen, Y. K. Lin. (2008). An evaluation method for enterprise resource planning systems based on the results of user training test, In: *Proceedings of International Joint Conference on e-Commerce, e-Administration, e-Society, and e-Education*, Bangkok, Thailand, 27-29 March, 2008.
42. S. G. Chen, Y. K. Lin. (2008). Sensitivity analysis on the reliability of a stochastic-flow network, In: *Proceedings of 14th ISSAT International Conference on Reliability and Quality in Design*, Orlando, Florida, USA , 7-9 August, 2008,

pp. 274-278.

43. S. G. Chen, Y. K. Lin. (2008). Capacity assignment for a stochastic-flow network based on structural importance, In: *Proceedings of Asian International Workshop on Advanced Reliability Modeling*, Taichung, Taiwan, 23-25 October, 2008, pp. 71-78.
44. H. F. Lai, S. G. Chen, W.-H. Jeng. (2008). Deductive e-bargaining system, In: *Proceedings of the IEEE Eighth International Conference on Intelligent Systems Design and Applications*, Kaohsiung City, Taiwan, 26-28 November, 2008, pp. 426-431. (**EI**).
45. H. F. Lai, S. G. Chen, W.-H. Jeng. (2008). Applying coloured activity net to model interorganizational workflow, In: *Proceedings of 2008 IEEE International Conference on Industrial Engineering and Engineering Management*, Singapore, 8-11 Dec., 2008, pp. 1495-1499. (**EI**).

Books:

1. **S. G. Chen**. (2011). Optimal capacity planning and performance evaluation in a process-based business with the consideration of system failures, a chapter In: Business Process Modeling: Software Engineering, Analysis and Applications, pp. 157-179, NY: Nova Science Publishers.

Technical Reports:

1. 陳星光, (2012). 企業資源規劃系統流程績效指標的快速計算方法研究(I), 100 年度國科會研究計畫 NSC 100-2221-E-236-003.
2. 陳星光, (2011). 整合個人績效的ERP績效評估指標之研究, 99 年度國科會研究計畫 NSC 99-2221-E-236-009.
3. **陳星光**, (2010). 整合個人績效的 ERP 績效評估指標之研究, 九十九年度國科會研究計畫 NSC 99-2221-E-236-009.
4. **陳星光**, (2009). 解析式 ERP 系統的執行績效指標研究, 九十八年度國科會研究計畫 NSC 98-2221-E-236-011.

Patents:

1. **陳星光**, (2013). 雲端門禁管制系統. 台灣.（新型第M449312號）
2. **S. G. Chen**, Y. K. Lin, (2012). Method for evaluating performance of internal network in an enterprise. USA . (**No.:US8090609B2**)
3. **陳星光**，(2012). 升降裝置與應用該升降裝置之摩天輪，台灣（證書字號: 發

明第I365845號）.

4. **陳星光**，(2012). 升降機構與應用該升降機構之摩天輪，台灣（證書字號:發明第I365165號）.

5. **陳星光**，林義貴，(2012). 企業內部網路之效能評估方法，台灣（證書字號:發明第I366106號）.

6. **S. G. Chen**, (2011). Elevating mechanism and Ferris wheel using the same. USA. (**No.: US7931539B2**).

Certificates:

1. CERPS AP Engineer of ERP in manufacturing module for Data System (ID: CERPS1205519) (2012/8/25)
2. EPC IOT Expert (ID: 12060901005)(2012/6/9)
3. EPC Foundation Planner (ID: 110279)(2011/4/16)
4. CERPS BI Planner (ID: BIP11CE00180) (2011/2/19).
5. **US** SOLE Demonstrated Logistician Level D (2010/4/16).
6. **British** BV ISO 14001Lead Auditor (ID: EA/08/TW/7240) (2008/5/29)
7. **French** APMP Consultant (Level B) (ID: TC424-2008-01-01) (2008/2/19)
8. **French** APMP Consultant (Level C) (ID: TC-416-2007-08-17) (2007/10/28)
9. **Germany** SAP BPERP Consultant (ID:0004667756) (2007/9/27)