

(A) 期刊論文

1. Bradley S. Stewart, **Ching-Fang Liaw**, and Chelsea C. White, III., “A bibliography of heuristic search research through 1992”, *IEEE Transactions on Systems, Man, and Cybernetics*, Vol. 24, No. 2, p. 268-293, 1994. (SCI)
2. **Ching-Fang Liaw**, Bradley S. Stewart, and Chelsea C. White, III., “Multiobjective heuristic search in AND/OR graphs”, *IEEE Transactions on Systems, Man, and Cybernetics*, Vol. 25, No. 11, p. 1513-1521, 1995. (SCI)
3. **Ching-Fang Liaw** and Chelsea C. White, III., “A heuristic search approach for solving a minimum path problem requiring arc cost determination”, *IEEE Transactions on Systems, Man, and Cybernetics*, Vol. 26, No. 5, p. 545-551, 1996. (SCI)
4. **Ching-Fang Liaw**, James Banders, and Chelsea C. White, III., “A decision support system for the bimodal dial-a-ride problem”, *IEEE Transactions on Systems, Man, and Cybernetics*, Vol. 26, No. 5, pp 552-565, 1996. (SCI)
5. **Ching-Fang Liaw**, “An iterative improvement approach for the nonpreemptive open shop scheduling problem”, *European Journal of Operational Research*, Vol. 111, No. 3, p. 89-97, 1998. (SCIE) (NSC 86-2213-E-324-001)
6. **Ching-Fang Liaw**, “A Tabu search algorithm for the open shop scheduling problem”, *Computers and Operations Research*, Vol. 26, No. 2, p. 109-126, 1999. (SCIE) (NSC 87-2213-E-324-005)
7. **Ching-Fang Liaw**, “A branch-and-bound algorithm for the single machine earliness and tardiness scheduling problem”, *Computers and Operations Research*, Vol. 26, p. 679-693, 1999. (SCIE) (NSC 88-2213-E-324-011)
8. **Ching-Fang Liaw**, “Applying simulated annealing to the open shop scheduling problem”, *IIE Transactions, Scheduling and Logistics*, Vol. 31, No. 5, p. 457-465, 1999. (SCIE)
9. **Ching-Fang Liaw**, “A hybrid genetic algorithm for the open shop scheduling problem”, *European Journal of Operational Research*, Vol. 124, p. 28-42, 2000. (SCIE)

10. **Ching-Fang Liaw**, and An-Hsiang Lin, "Scheduling open shops to minimize total weighted tardiness", *Journal of the Chinese Institute of Industrial Engineers*, Vol. 18, No. 6, p. 29-42, 2001. (EI) (NSC 89-2213-E-324-012)
11. **Ching-Fang Liaw**, Chun-Yuan Cheng and Mingchih Chen , "The total completion time open shop scheduling problem with a given sequence of jobs on one machine", *Computers and Operations Research* , Vol. 29, No. 9, p. 137-152, 2002. (SCIE) (NSC 90-2218-E-324-008)
12. **Ching-Fang Liaw**, Yang-Kuei Lin, Chun-Yuan Cheng and Mingchih Chen , "Scheduling Unrelated Parallel Machines to Minimize Total Weighted Tardiness", *Computers and Operations Research* , Vol. 30, No. 12, p. 1777-1789, 2003. (SCIE) (NSC 89-2213-E-324-044)
13. **Ching-Fang Liaw**, "An Efficient Tabu Search Approach for the Two-Machine Preemptive Open Shop Scheduling Problem", *Computers and Operations Research* , Vol. 30, No. 14, p. 2081-2095, 2003. (SCIE)
14. **Ching-Fang Liaw**, "Scheduling two-machine preemptive open shops to minimize total completion time", *Computers and Operations Research*, Vol. 31, p. 1349-1363, 2004. (SCIE)
15. **Ching-Fang Liaw**, "Scheduling Preemptive Open Shops to Minimize Total Tardiness", *European Journal of Operational Research*, Vol. 162, p. 173-183, 2005. (SCIE)
16. **Ching-Fang Liaw**, "Scheduling two-machine no-wait open shops to minimize makespan", *Computers and Operations Research*, Vol. 32, p. 901-917, 2005. (SCIE)
17. **Ching-Fang Liaw**, "An Efficient Simple Metaheuristic for Minimizing the Makespan in Two-Machine No-Wait Job Shops", *Computers and Operations Research* , Vol. 35, p. 3276-3283, 2008. (SCIE)
18. **Ching-Fang Liaw**, "An improved branch-and-bound algorithm for the preemptive open shop total completion time scheduling problem", *Journal of Industrial and Production Engineering*, 30(5), p. 327-335, 2013. (TSSCI)
19. **Ching-Fang Liaw**, "A Fast Heuristic to Minimize Number of Tardy Jobs in Preemptive Open Shops", *Journal of Industrial and Production Engineering*, 31(1), p. 27-35, 2014. (TSSCI)

20. **Ching-Fang Liaw**, “A branch-and-bound algorithm for identical parallel-machine total completion time scheduling problem with preemption and release times”, *Journal of Industrial and Production Engineering*, 33(6), p. 383-390, 2016. (TSSCI)
21. **Ching-Fang Liaw**, “A branch-and-bound algorithm for identical parallel-machine total tardiness scheduling problem with preemption”, *Journal of Industrial and Production Engineering*, 33(6), p. 426-434, 2016. (TSSCI)
22. Tao-Ming Cheng, Hsing-Yu Hou, Dinesh Chandra Agrawal, **Ching-Fang Liaw** and Rung-Ching Chen, “Remedial education for high-risk university freshmen – the case of a university of technology in Taiwan”, *Asia Pacific Journal of Education*, 38(2), p. 241-256, 2018.
23. **Ching-Fang Liaw**, Wan-Chi Jackie Hsu and Huai-Wei Lo, “A Hybrid MCDM Model to Evaluate and Classify Outsourcing Providers in Manufacturing”, *Symmetry* 2020, 12, 1962, 2020. (Scopus)
24. Huai-Wei Lo, **Ching-Fang Liaw**, Muhammet Gul and Kuan-Yu Lin, “Sustainable supplier evaluation and transportation planning in multi-level supply chain networks using multi-attribute- and multi-objective decision making”, *Computers & Industrial Engineering*, 162 (2021) 107756, 2021. (SCI)
25. **Ching-Fang Liaw**, “Two-Machine Open Shop Scheduling with Proportionally Deteriorating Jobs and Makespan Objective”, *Journal of Optimization in Industrial Engineering*, 15(2), p. 313-321, 2022. (Scopus)
26. Huai-Wei Lo, Muhammet Gul, Melih Yucesan, and **Ching-Fang Liaw**, “An assessment model with dependent failure modes for the manufacturing and design process of medical equipment”, *International Journal on Interactive Design and Manufacturing* (2024), <https://doi.org/10.1007/s12008-024-01919-7>. (Scopus)

(B) 研討會論文

1. 鄭純媛、廖經芳、游攔鴻，1997，「半導體晶圓生產週期管理之研究」，邁向二十一世紀的品質與管理技術應用研討會(1997)論文集，第418頁至第429頁。

2. **Ching-Fang Liaw**, 1998, "A Hybrid Genetic Algorithm for the Open Shop Scheduling Problem", Proceedings of the Chinese Institute of Industrial Engineers, National Conference, 1998, pp. 36-41.
3. 施大維, **廖經芳**, 1999, 「開放工廠加權總流程時間最小化排程問題之研究」, 88 年度工業工程年會論文集。
4. 林安祥, **廖經芳**, 1999, 「開放工廠總加權延遲最小化排程問題之研究」, 88 年度工業工程年會論文集。
5. **Ching-Fang Liaw**, Yang-Kue Lin and Mingchih Chen, 2000, "A branch-and-bound algorithm for unrelated parallel-machine total weighted tardiness scheduling problem", Proceedings of the 5th Annual International Conference on Industrial Engineering-Theory, Applications and Practice.
6. Chun-Ching Lin, **Ching-Fang Liaw**, Mingchih Chen, 2000, "A Genetic Algorithm Approach to Minimize Total Weighted Tardiness for Unrelated Parallel Machines", Proceedings of the 5th Annual International Conference on Industrial Engineering-Theory, Applications and Practice.
7. **Ching-Fang Liaw**, 2002, "An Efficient Tabu Search Approach for the Two-Machine Preemptive Open Shop Scheduling Problem", Proceedings of the 9th Bellman Continuum: International Workshop on Uncertain Systems and Soft Computing, Beijing, China.
8. Mingchih Chen, Chun-Yuan Cheng, **Ching-Fang Liaw**, Chun-Ching Lin, 2002, "The Parameterization Method of Multi-Objective Genetic Algorithm for Unrelated Parallel Machines Scheduling Problem", Proceedings of the 4th Asia-Pacific Conference on the Industrial Engineering and Management Systems, Taipei, Taiwan.
9. Chun-Yuan Cheng, **Ching-Fang Liaw**, Min Wang, 2004, "Periodic Preventive Maintenance Models for Deteriorating Systems With Considering Failure Limit", 4th International Conference on Mathematical Methods in Reliability—Methodology and Practices, Santa Fe, New Mexico, Jun. 21-25, 2004.
10. Chun-Yuan Cheng and **Ching-Fang Liaw**, 2005, "Statistical Estimation on Imperfectly Maintained System", European Safety & Reliability Conference 2005 (ESREL 2005), Tri-City, Poland, Jun. 27-30, pp 351-356, 2005.

(C) 專書及專書論文

1. **Ching-Fang Liaw**, 1994, "Heuristic search and its transit applications," Ph.D. Dissertation, University of Michigan, Ann Arbor, Michigan.

(D) 技術報告及其他

1. 鄭純媛、**廖經芳**，1996，「半導體晶圓生產週期管理之研究」，國科會專題研究計畫成果報告。計畫編號：NSC 85-2213-E-324-001.
2. **廖經芳**，1997，「不可分割開放式工廠排程問題啟發式演算法之研究」，國科會專題研究計畫成果報告。計畫編號：NSC 86-2213-E-324-001.
3. **廖經芳**，1998，「塔布搜尋法應用於開放式工廠排程問題之研究」，國科會專題研究計畫成果報告。計畫編號：NSC 87-2213-E-324-005.
4. **廖經芳**，1999，「單機總加權提前及延遲最小化排程問題之研究」，國科會專題研究計畫成果報告。計畫編號：NSC 88-2213-E-324-011.
5. **廖經芳**，2000，「開放工廠總加權延遲極小化排程問題之研究」，國科會專題研究計畫成果報告。計畫編號：NSC 89-2213-E-324-012.
6. **廖經芳**，2001，「不相關平行機器總加權延遲最小化排程問題之研究」，國科會專題研究計畫成果報告。計畫編號：NSC 89-2213-E-324-044.
7. **廖經芳**，2002，「考慮先後順序限制之開放工廠總完工時間最小化排程問題之研究」，國科會專題研究計畫成果報告。計畫編號：NSC 90-2218-E-324-008.
8. **廖經芳**，2003，「可中斷開放工廠排程問題之研究(1/3)」，國科會專題研究計畫成果報告。計畫編號：NSC 91-2213-E-324-017.
9. **廖經芳**，2004，「可中斷開放工廠排程問題之研究(2/3)」，國科會專題研究計畫成果報告。計畫編號：NSC 92-2213-E-324-003.

10. 廖經芳，2005，「可中斷開放工廠排程問題之研究(3/3)」，國科會專題研究計畫成果報告。計畫編號：NSC 93-2213-E-324-002.
11. 廖經芳，2006，「雙機連續性製程工廠排程問題之研究(1/3)」，國科會專題研究計畫成果報告。計畫編號：NSC 94-2213-E-324-012.
12. 廖經芳，2007，「雙機連續性製程工廠排程問題之研究(2/3)」，國科會專題研究計畫成果報告。計畫編號：NSC 95-2221-E-324-027.
13. 廖經芳，2008，「雙機連續性製程工廠排程問題之研究(3/3)」，國科會專題研究計畫成果報告。計畫編號：NSC 96-2221-E-324-017.
14. 廖經芳，2009，「作業處理可分割之開放工廠排程問題之研究」，國科會專題研究計畫成果報告。計畫編號：NSC 97-2221-E-324-019-MY3.
15. 廖經芳，2010，「作業處理可分割之開放工廠排程問題之研究」，國科會專題研究計畫成果報告。計畫編號：NSC 97-2221-E-324-019-MY3.
16. 廖經芳，2011，「作業處理可分割之開放工廠排程問題之研究」，國科會專題研究計畫成果報告。計畫編號：NSC 97-2221-E-324-019-MY3.
17. 廖經芳，2012，「可中斷式開放工廠排程問題理論性質與求解方法之研究(I)」，國科會專題研究計畫成果報告。計畫編號：NSC 100-2221-E-324-015.
18. 廖經芳，2013，「可中斷式開放工廠排程問題求解方法之研究」，國科會專題研究計畫成果報告。計畫編號：NSC 101-2221-E-324-010-MY2.
19. 廖經芳，2014，「可中斷式開放工廠排程問題求解方法之研究」，國科會專題研究計畫成果報告。計畫編號：NSC 101-2221-E-324-010-MY2.
20. 廖經芳，2016，「作業處理可分割相同平行機器排程問題求解方法之探討」，科技部專題研究計畫成果報告。計畫編號：NSC 105-2221-E-324-015.