

## **Publications**

### **A. Refereed Journals**

1. James C. Chen, **Tzu-Li Chen**\*, Wei-Chen Huang, Peter Peng and Tony Lin, "Supply Chain Planning for IC Design House Back-end Production Network with Turnkey Service", *IEEE Transactions on Semiconductor Manufacturing*, *accepted*, 2023. (SCI).
2. Yin-Yann Chen, **Tzu-Li Chen**, Chun-Chih Chiu and Yi-Jia Wu, "A multi-trip vehicle routing problem considering time windows and limited duration under parking constraints with a heterogeneous fleet in cold supply chain logistics", *Transportation Planning and Technology*, Vol. 46, No.3, pp. 335-358, 2023. (SCI)
3. Kuo-Hao Chang, **Tzu-Li Chen**\*, Fu-Hao Yang and Tzu-Yin Chang, "Simulation Optimization for Stochastic Casualty Collection Point Location and Resource Allocation Problem in a Mass Casualty Incident", *European Journal of Operational Research*, Vol. 309, No.3, pp. 1237-1262, 2023. (SCI)
4. James C. Chen, **Tzu-Li Chen**\* and Yu-Hsin Lee, "Simulation Optimization for Parcel Hub Scheduling Problem in Closed-loop Sortation System with Shortcuts", *Simulation Modelling Practice and Theory*, Vol. 124, Article 102728, 2023. (SCI)
5. Chen-Yang Cheng, Pourya Pourhejazy and **Tzu-Li Chen**\*, "Computationally Efficient Approximate Dynamic Programming for Multi-site Production Capacity Planning with Uncertain Demands", *Flexible Services and Manufacturing Journal*, *in press*, 2022. (SCI)
6. James C. Chen, **Tzu-Li Chen**\*, Han-Yu Hu, Peter Peng and Tony Lin, "Multi-objective Order Promising for Outsourcing Supply Network of IC Design Houses", *IEEE Transactions on Semiconductor Manufacturing*, Vol. 35, No.4, pp. 680-697, 2022. (SCI)
7. James C. Chen, **Tzu-Li Chen**, Hsiang-Leng Wang and Ping-Chen Chang, "Underwater Abnormal Classification System Based on Deep Learning: A Case study on Aquaculture Fish Farm in Taiwan", *Aquacultural Engineering*, Vol. 99, Article 102290, 2022. (SCI)
8. **Tzu-Li Chen**\*, James C. Chen, Wen-Han Chang, Weide Tsai, Mei-Chuan Shih and Achmad Wildan Nabila, "Imbalanced Prediction of Emergency Department Admission Using Natural Language Processing and Deep Neural Network", *Journal of Biomedical Informatics*, Vol. 133, Article 104171, 2022. (SCI)
9. James C. Chen, Yin-Yann Chen, **Tzu-Li Chen** and Yu-Chia Yang, "An adaptive genetic algorithm-based and AND/OR graph approach for disassembly line balancing problem", *Engineering Optimization*, Vol. 54, No.9, pp. 1583-1599, 2022. (SCI)
10. Ming. Zhao, Shuo-Tsung Chen, **Tzu-Li Chen**, Shu-Yi Tu, Cheng-Ta Yeh, Fang-Yu Lin and Hao-Chun Lu, "Intelligent Healthcare System Using Patients Confidential Data Communication in Electrocardiogram Signals", *Frontiers in Aging Neuroscience*, Vol. 14, Article 870844, 2022. (SCI)
11. James C. Chen, Yin-Yann Chen, **Tzu-Li Chen** and Yi-Hsuan Lin, "Multi-Project Scheduling with Multi-Skilled Workforce Assignment Considering Uncertainty and Learning Effect for

- Large-Scale Equipment Manufacturer”, *Computers & Industrial Engineering*, Vol. 169, Article 108240, 2022. (SCI)
12. James C. Chen, Hung-Yu Lee, Wen-Haiung Hsieh and **Tzu-Li Chen**\*, “Applying hybrid genetic algorithm to multi-mode resource constrained multi-project scheduling problems”, *Journal of the Chinese Institute of Engineers*, Vol. 45, No.1, pp.42-53, 2022. (SCI)
  13. James C. Chen, **Tzu-Li Chen**\*, Wei-Jun Liu, C. C. Cheng and Meng-Gung Li, “Combining Empirical Mode Decomposition and Deep Recurrent Neural Networks for Predictive Maintenance of Lithium-Ion Battery”, *Advanced Engineering Informatics*, Vol. 50, Article 101405, 2021. (SCI)
  14. James C. Chen, **Tzu-Li Chen**\* and Yu-Ching Teng, “Meta-model based Simulation Optimization for Automated Guided Vehicle System under Different Charging Mechanisms”, *Simulation Modelling Practice and Theory*, Vol. 106, Article 102208, 2021. (SCI)
  15. **Tzu-Li Chen**, James C. Chen, Chien-Fu Huang and Ping-Chen Chang, “Solving the layout design problem by simulation-optimization approach—A case study on a sortation conveyor system”, *Simulation Modelling Practice and Theory*, Vol. 106, Article 102192, 2021. (SCI)
  16. James C. Chen, **Tzu-Li Chen**\* and Hsiao-Ching Hung, “Capacity allocation with lot splitting in photolithography area using hybrid genetic algorithm based on self-tuning strategy”, *Computers & Industrial Engineering*, Vol. 148, Article 106656, 2020. (SCI)
  17. Wen-Han Chang, Sonia M. Lo, **Tzu-Li Chen**, James C. Chen and Hao-Ning Wu, “Utilizing Online Stochastic Optimization on Scheduling of Intensity-Modulate Radiotherapy Therapy (IMRT)”, *Journal of Biomedical Informatics*, Vol. 108, Article 103499, 2020. (SCI)
  18. **Tzu-Li Chen**, Chen-Yang Cheng and Yi-Han Chou, “Multi-Objective Genetic Algorithm for Energy-Efficient Hybrid Flow Shop Scheduling with Lot Streaming”, *Annals of Operations Research*, Vol. 290, No.1-2, pp.813-836, 2020. (SCI)
  19. James C. Chen, **Tzu-Li Chen**\*, Ting-Chieh Ou and Yu-Hsin Lee, “Adaptive Genetic Algorithm for Parcel Hub Scheduling Problem with Shortcuts in Closed-Loop Sortation System”, *Computers & Industrial Engineering*, Vol. 138, Article 106114, 2019. (SCI)
  20. James C. Chen, Yin-Yann Chen, **Tzu-Li Chen** and Yi-Hsin Kuo, “Applying two-phase adaptive genetic algorithm to solve multi-model assembly line balancing problems in TFT–LCD module process”, *Journal of Manufacturing Systems*, Vol. 52, pp. 86-99, 2019. (SCI)
  21. Yen-Yi Feng, I-Chin Wu, **Tzu-Li Chen** and Wen-Han Chang, " A Hybrid Data Mining Approach for Generalizing Characteristics of Emergency Department Visits Causing Overcrowding", *Journal of Library and Information Studies*, 2019, Vol. 17, pp. 1–35, (TSSCI). [in Chinese].
  22. James C. Chen, **Tzu-Li Chen**\*, Bayu Rezki Pratama and Qian-Fang Tu, “Capacity Planning with Ant Colony Optimization for TFT-LCD Array Manufacturing”, *Journal of Intelligent Manufacturing*, Vol. 29, No.8, pp.1695-1713, 2018. (SCI)

23. I-Chin Wu, **Tzu-Li Chen**, Guan-Qun Hong, Yen-Ming Chen and Tzu-Chi Liu, "A Symbolic Time-series Data Mining Framework for Analyzing Load Profiles of Electricity Consumption", *Journal of Library and Information Studies*, 2017, Vol. 15, pp. 21–44, (TSSCI). [in Chinese].
24. James C. Chen, Yin-Yann Chen, **Tzu-Li Chen** and Jim Z. Lin, "Comparison of Simulated Annealing and Tabu-Search Algorithms in Advanced Planning and Scheduling System for TFT-LCD Color Filter Fabs", *International Journal of Computer Integrated Manufacturing*, Vol. 30, pp. 516–534, 2017. (SCI)
25. Yen-Yi Feng, I-Chin Wu and **Tzu-Li Chen**\*, "Stochastic resource allocation in emergency departments with a multi-objective simulation optimization algorithm", *Health Care Management Science*, Vol. 20, pp. 55–75, 2017. (SSCI)
26. James C. Chen, **Tzu-Li Chen**\* and Harry Harianto, "Capacity Planning for Packaging Industry", *Journal of Manufacturing Systems*, Vol. 42, pp. 153–169, 2017. (SCI)
27. Yi-Wen Chen, Li-Chih Wang, Allen Wang, and **Tzu-Li Chen**, "A particle swarm approach for optimizing a multi-stage closed loop supply chain for the solar cell industry", *Robotics and Computer-Integrated Manufacturing*, Vol. 43, pp. 111–123, 2017. (SCI)
28. **Tzu-Li Chen**, I-Chin Wu, Chung-Lun Yang and Yen-Yi Feng, "An Empirical Study on Mining Behaviors of Patients Based on Their Length of Stay in the Emergency Department ", *Journal of Management & Systems*, Vol. 23, pp. 527-561, 2016. (TSSCI). [in Chinese].
29. James C. Chen, **Tzu-Li Chen**\*, Bayu Rezki Pratama and Qian-Fang Tu, "Capacity Planning in Thin Film Transistor - Liquid Crystal Display Cell Process", *Journal of Manufacturing Systems*, Vol. 39, pp. 63-78, 2016. (SCI)
30. **Tzu-Li Chen**\* and Chih-Chieh Wang "Multi-objective simulation optimization for medical capacity allocation in emergency department", *Journal of Simulation*, Vol. 10, No.1, pp. 50-68, 2016. (SCI)
31. Chen-Yang Cheng, Yin-Yann Chen, **Tzu-Li Chen** and John Jung-Woon Yoo, "Using a hybrid approach based on the particle swarm optimization and ant colony optimization to solve a joint order batching and picker routing problem", *International Journal of Production Economics* , Vol. 170, pp. 805-814, 2015. (SCI)
32. James C. Chen, Cheng-Ju Sun and **Tzu-Li Chen**\*, "Capacity Planning for Integrated Circuit Final Test Plants", *International Journal of Computer Integrated Manufacturing*, Vol. 28, No.12, pp. 1262-1274, 2015. (SCI)
33. **Tzu-Li Chen**, Chen-Yang Cheng, Yin-Yann Chen and Li-Kai Chan, "An efficient hybrid algorithm for integrated order batching, sequencing and routing problem", *International Journal of Production Economics*, Vol. 159, pp. 158-167, 2015. (SCI)
34. Chen-Yang Cheng, Tsung Yin Ou, **Tzu-Li Chen** and Yin-Yann Chen, "Transferring cognitive apprenticeship to manufacturing process knowledge management system: a case study of small and medium-sized coating industry", *VINE*, Vol. 44, No.3, pp. 420-444, 2014.

35. I-Chin Wu, Ruei-Jie Li, and **Tzu-Li Chen**\*, “A Vehicular Maintenance and Replacement Decision Support System in Distribution Services: A Data Mining Technique”, *Journal of Management & Systems*, Vol. 21, pp. 111-137, 2014. (TSSCI). [in Chinese].
36. Chen-Yang Cheng, **Tzu-Li Chen**, and Yin-Yann Chen, “An Analysis of the Structural Complexity of Supply Chain Networks”, *Applied Mathematical Modelling*, Vol. 38, No.9-10 pp. 2328–2344, 2014. (SCI)
37. Li-Chih Wang, Yin-Yann Chen, **Tzu-Li Chen**, Chen-Yang Cheng and Chin-Wei Chang, “A Hybrid Flowshop Scheduling Model Considering Dedicated Machines and Lot-splitting for the Solar Cell Industry”, *International Journal of Systems Science*, Vol. 45, No.10 pp. 2055–2071, 2014. (SCI)
38. James T. Lin, **Tzu-Li Chen**\*, and Hsiao-Ching Chu, “A Stochastic Dynamic Programming Approach for Multi-Site Capacity Planning in TFT-LCD Manufacturing under Demand Uncertainty”, *International Journal of Production Economics*, Vol. 148, pp. 21-36, 2014. (SCI)
39. **Tzu-Li Chen**\*, James T. Lin, and Cheng-Hung Wu, “Coordinated Capacity Planning in Two-stage Thin-Film-Transistor Liquid-Crystal-Display (TFT-LCD) Production Networks”, *OMEGA-INTERNATIONAL JOURNAL OF MANAGEMENT SCIENCE* , Vol. 42, No.1, pp. 141-156, 2014. (SCI)
40. **Tzu-Li Chen**\*, Yin-Yann Chen and Hao-Chun Lu, “A capacity allocation and expansion model for TFT-LCD multi-site manufacturing”, *Journal of Intelligent Manufacturing*, Vol. 24, No.4, pp.847-872, 2013. (SCI)
41. Chen-Yang Cheng, **Tzu-Li Chen**\*, Li-Chih Wang and Yin-Yann Chen “A Genetic Algorithm for the Multi-Stage and Parallel-Machine Scheduling Problem with job splitting – A Case Study for the Solar Cell Industry”, *International Journal of Production Research*, Vol. 51, No.16, pp. 4755-4777, 2013. (SCI)
42. Yin-Yann Chen, **Tzu-Li Chen** and Cheng-Dar Liou, “Medium-term Multi-plant Capacity Planning Problems Considering Auxiliary Tools for the Semiconductor Foundry”, *International Journal of Advanced Manufacturing Technology*, Vol. 64, pp. 1213-1230, 2013. (SCI)
43. Hao-Chun Lu and **Tzu-Li Chen**\*, “Efficient Model for Interval Goal Programming with Arbitrary Penalty Function”, *Optimization Letters*, Vol. 7, pp.325-341, 2013. (SCI)
44. Yin-Yann Chen, Chen-Yang Cheng, Li-Chih Wang and **Tzu-Li Chen**, “A hybrid approach based on the variable neighborhood search and particle swarm optimization for parallel machine scheduling problems- a case study for solar cell industry”, *International Journal of Production Economics*, Vol. 141, pp. 66-78, 2013. (SCI)
45. **Tzu-Li Chen** and Hao-Chun Lu, “Stochastic Multi-Site Capacity Planning of TFT-LCD Manufacturing Using Expected Shadow-Price Based Decomposition”, *Applied Mathematical Modelling*, Vol. 36, pp.5901-5919, 2012. (SCI)

46. Yin-Yann Chen, James T. Lin and **Tzu-Li Chen**, "A Two-Phase Dynamic Dispatching Approach to Semiconductor Wafer Testing", *Robotics and Computer-Integrated Manufacturing*, Vol. 27, pp.889-901, 2011. (SCI)
47. James T. Lin, Cheng-Hung Wu, **Tzu-Li Chen** and Shin-Hui Shih, "A Stochastic Programming Model for Strategic Capacity Planning in Thin Film Transistor – Liquid Crystal Display (TFT-LCD) Industry", *Computers & Operations Research*, Vol. 38, pp.992-1007, 2011. (SCI)
48. James T. Lin\* and **Tzu-Li Chen**, "A Hierarchical Planning and Scheduling Framework for TFT-LCD Production Chain", *Automation Quarterly*, Sep. 2010. [in Chinese].
49. **Tzu-Li Chen**\*, James T. Lin and Shu-Cherng Fang, "A Shadow-Price Based Heuristic for Capacity Planning of TFT-LCD Manufacturing", *Journal of Industrial and Management Optimization*, Vol. 6, No.1, pp.209-239, 2010. (SCI)
50. James T. Lin, **Tzu-Li Chen** and Yen-Ting Lin, "Critical Material Planning for TFT-LCD Production Industry", *International Journal of Production Economics*, Vol.122, No. 2, pp.639-655, 2009. (SCI)
51. James T. Lin, Chien-Chi Tsai, Yin-Yann Chen and **Tzu-Li Chen**, "Dispatching Rules with Queue-Time-Limit Consideration for Furnace in Wafer Fabrication Factory", *Journal of Advanced Engineering*, Vol. 4, No. 3, pp. 273-278, 2009. [in Chinese]
52. James T. Lin, **Tzu-Li Chen**\* and Wei-June Chen, "Capacity and product mix planning problem for TFT Array multi-plant", *Journal of the Chinese Institute of Industrial Engineers*, Vol.24, No.6, pp.489-504, 2007. (EI, TSSCI)
53. James T. Lin, **Tzu-Li Chen**, Tiffany Tsai, Jeffery J. Lai and Tuo-Chung Huang, "A SCOR-Based Methodology for Analyzing and Designing Supply Chain", *International Journal of Electronic Business Management*, Vol.3, No.1, pp.1-7, 2005. (EI)
54. James T. Lin, **Tzu-Li Chen**\* and Chien-Chung Huang, "A Hierarchy Planning Model for TFT-LCD Production Chain", *International Journal of Electronic Business Management*, Vol.2, No.1, pp.59-68, 2004. (EI)

## B. International/Domestic Conference

1. James C. Chen, **Tzu-Li Chen**, A. W. Nabila, W. H. Chang, W. Tsai, "Neural Network Multi-Class Classification Model for Hospital Disposition Among Different Age Grouping Patients in the Emergency Department", *the 10th International Conference on Industrial Engineering and Applications (ICIEA)*, Phuket Island, Thailand. April 4-6, 2023.
2. James C. Chen, **Tzu-Li Chen**, D. Anggrahini, "Increasing Service Level of A Parcel Distribution Center: A Systematic Literature Review", *the 10th International Conference on Industrial Engineering and Applications (ICIEA)*, Phuket Island, Thailand. April 4-6, 2023.
3. James C. Chen, **Tzu-Li Chen**, M. H. Lee, W. H. Chang, W. Tsai, "Multi-Task Learning Model for Patient Disposition and Length of Stay Prediction in Emergency Department", *the*

- 10th International Conference on Industrial Engineering and Applications (ICIEA)*, Phuket Island, Thailand. April 4-6, 2023.
4. James C. Chen, **Tzu-Li Chen**, P. A. Chou, P. Peng, T. Lin, “Rolling Horizon Supply Chain Planning for IC Design House with Forecast Evolution”, *the 10th International Conference on Industrial Engineering and Applications (ICIEA)*, Phuket Island, Thailand. April 4-6, 2023.
  5. James C. Chen, **Tzu-Li Chen**, K. C. Koo, M. G. Li, “A Tree-Like Hierarchical KPI Structure for the Manufacturing Process”, *the 10th International Conference on Industrial Engineering and Applications (ICIEA)*, Phuket Island, Thailand. April 4-6, 2023. (**Excellent Oral Presentation**)
  6. James C. Chen, **Tzu-Li Chen**, C. W. Su, P. Peng, T. Lin, “Back-End Production Network Supply Chain Planning for IC Design House with Wafer Level Chip Scale Package”, *the 10th International Conference on Industrial Engineering and Applications (ICIEA)*, Phuket Island, Thailand. April 4-6, 2023.
  7. James C. Chen, **Tzu-Li Chen**, C. R. Li, K. C. Yao, T. J. Chen, M. Y. Yang, “Constraint-Based Multi-Task Prediction for Grinding Wheel Specification”, *the 10th International Conference on Industrial Engineering and Applications (ICIEA)*, Phuket Island, Thailand. April 4-6, 2023.
  8. James C. Chen, **Tzu-Li Chen**, B. Y. Kew, M. J. Han, C. S. Wang, “Simulation-Based Traffic Control for Multi-AGV System”, *the 10th International Conference on Industrial Engineering and Applications (ICIEA)*, Phuket Island, Thailand. April 4-6, 2023.
  9. James C. Chen, **Tzu-Li Chen**, C. L. Hsu, M. S. Shih, S. L. Tseng, “Cost-Sensitive-Learning-Based Customer-Side Quality Inspection for TFT-LCD Industry”, *the 10th International Conference on Industrial Engineering and Applications (ICIEA)*, Phuket Island, Thailand. April 4-6, 2023.
  10. James C. Chen, **Tzu-Li Chen**, Meng-Gung Li, and Kung-Chin Koo, “KPI Analysis and Application”, *13th International Conference on Industrial Engineering and Operations Management*, Manila, Philippines, March 6-9, 2023.
  11. **陳子立**、鍾福臻, 2022 “以 Wolpertinger 架構為基礎之 WDDPG 演算法求解隨機動態離散產能擴充決策”, 2022 第十八屆台灣作業研究學會年會暨國際研討會, 陽明交通大學。
  12. **陳子立**、蔡昫真、謝尚霖, 2022 “考慮新冠肺炎流行率與需求時空不確定性下動態快篩站設置與醫療產能規劃”, 2022 第十八屆台灣作業研究學會年會暨國際研討會, 陽明交通大學。
  13. 游嵐心、**陳子立**、張子瑩、張智昌、劉致灝、張國浩, 2022 “應用模擬為基礎近似動態規劃演算法求解大量傷患下動態救護車派遣與傷患配送問題”, 2022 第十八屆台灣作業研究學會年會暨國際研討會, 陽明交通大學。 (**獲 2022 第十八屆台灣作業研究學會年會暨國際研討會「最佳論文獎」**)
  14. 張瑋苓、**陳子立**、張國浩、張子瑩、張智昌、劉致灝, 2022 “大規模災難下二階隨機最佳

- 化之整合災前檢傷站選址與災後救護車派遣規劃”, 2022 第十八屆台灣作業研究學會年會暨國際研討會, 陽明交通大學.
15. 張國浩、陳子立、張子瑩、張智昌、劉致灝、游嵐心, 2022 “大量傷患下救護車派遣與傷患配送之隨機動態最佳化”, 2022 中國工業工程學會年會暨學術研討會, 金門大學.
  16. 張國浩、陳子立、張子瑩、張智昌、劉致灝、張瑋芬, 2022 “大規模災難下二階隨機最佳化之災前檢傷站選址與災後救護車路徑規劃”, 2022 中國工業工程學會年會暨學術研討會, 金門大學. (獲 2022 中國工業工程學會年會暨學術研討會「最佳論文獎」)
  17. 陳子立、黃曜輝、林心平, 2022 “考慮旅行時間不確定之具時窗多趟次多艙種異質車輛配送之研究”, 2022 中國工業工程學會年會暨學術研討會, 金門大學.
  18. 陳子立、鍾福臻, 2022 “應用深度強化學習求解多廠區多資源隨機動態產能規劃”, 2022 中國工業工程學會年會暨學術研討會, 金門大學.
  19. 陳子立、蔡昀真、謝尚霖, 2022 “新冠肺炎下多階隨機動態快篩站設置與產能規劃之研究”, 2022 中國工業工程學會年會暨學術研討會, 金門大學.
  20. Tzu-Li Chen, “Risk-Averse Multi-Stage Stochastic Resource Provisioning in Cloud Computing”, 2022 *Asia Pacific International Symposium on Advanced Reliability and Maintenance Modeling*, Hsinchu, Taiwan, October 21-24, 2022.
  21. James C. Chen, Tzu-Li Chen, and Yu-Jie Chang, “Combinatorial Optimization of Various Placement Machines for PCB Assembly Lines”, *7th North American International Conference on Industrial Engineering and Operations Management*, Orlando, Florida, USA, June 12-14, 2022.
  22. I-Chin Wu, Chu-En Chen, Zhi-Rou Lin, Tzu-Li Chen and Yen-Yi Feng, “Predicting Hospital Admission by Adding Chief Complaints Using Machine Learning Approach”, *24TH INTERNATIONAL CONFERENCE ON HUMAN-COMPUTER INTERACTION (HCI2022)*, Gothenburg, Sweden, June 26-July 1, 2022.
  23. 張國浩、陳子立、張子瑩、李旖庭, 2021 “在道路損壞下大量傷患救護車派遣兩階段隨機最佳化”, 2021 第十七屆台灣作業研究學會年會暨國際研討會, 勤益科技大學. (獲 2021 第十七屆台灣作業研究學會年會暨國際研討會「優良論文獎」)
  24. 張國浩、陳子立、張子瑩、楊富豪, 2021 “利用模擬最佳化演算法求解大量傷患事件下檢傷站設置與救護車資源分配問題”, 2021 第十七屆台灣作業研究學會年會暨國際研討會, 勤益科技大學.
  25. 張國浩、陳子立、張子瑩、張智昌、劉致灝、楊富豪, 2021 “大量傷患事件下檢傷站設置與資源配置模擬最佳化問題”, 2021 中國工業工程學會年會暨學術研討會, 成功大學. (獲 2021 中國工業工程學會年會暨學術研討會「最佳論文獎」)
  26. 張國浩、陳子立、張子瑩、張智昌、劉致灝、李旖庭, 2021 “考慮道路損壞不確定性下大量傷患救護車派遣隨機最佳化”, 2021 中國工業工程學會年會暨學術研討會, 成功大學.
  27. James C. Chen, Chien-Fu Huang, Tzu-Li Chen, and Yu-Hsin Lee, “Solving a Sortation Conveyor Layout Design Problem with Simulation-optimization Approach”, *2019 IEEE 6th International Conference on Industrial Engineering and Applications (ICIEA)*, Tokyo, Japan,

April 12-15, 2019.

28. **Tzu-Li Chen**, James C. Chen, Wen-Han Chang, Yu-Jen Chen, Hao-Ning Wu, Hsiang-Leng Wang and Po-Jen Chou, "Utilizing Online Stochastic Optimization on Scheduling of Intensity-Modulate Radiotherapy Therapy (IMRT)", *2019 IEEE 6th International Conference on Industrial Engineering and Applications (ICIEA)*, Tokyo, Japan, April 12-15, 2019.
29. **Tzu-Li Chen**, James C. Chen, Hsiao-Ching Hung and Ting-Chieh Ou, "Solving the Loading Balance Problem in the Photolithography Area", *2018 International Symposium on Business and Management*, Osaka, Japan, April 1-3, 2018.
30. Min-Bin Lin, **Tzu-Li Chen**, James C. Chen and Yu-Jen Chen, "Solving a Quantile-Based Stochastic Resource Allocation Problem with Simulation-Optimization Method", *2018 International Symposium on Business and Management*, Osaka, Japan, April 1-3, 2018. **(Distinguished Paper Award)**
31. James C. Chen, **Tzu-Li Chen**, Wen-Han Chang, Yu-Jen Chen and Ting-Ying Chu, "Decision Making in Healthcare Industry", *2018 International Symposium on Business and Management*, Osaka, Japan, April 1-3, 2018.
32. James C. Chen, **Tzu-Li Chen**, Wen Teng Wang, Wei-Lun Hu and Julio Sanchez, "Risk-Controlled Simultaneous Scheduling of Machines and AGVs Using a Quantile-based Optimization Approach", *2018 International Symposium on Business and Management*, Osaka, Japan, April 1-3, 2018.
33. **Tzu-Li Chen**, James C. Chen and Hsiao-Ching Hung, "Using Two-Stage Genetic Algorithm for Load Balancing among Photolithography Machines with Variable Lot Splitting Restriction", *International Conference on Advanced Technology Innovation 2017*, Samui, Thailand, June 25 - 28, 2017.
34. James C. Chen, Wen-Teng Wang, Min-Bin Lin and **Tzu-Li Chen**, "A Three-phase Optimization Method for Quantile-based Stochastic Resource Allocation Problems", *International Conference on Advanced Technology Innovation 2017*, Samui, Thailand, June 25 - 28, 2017.
35. **Tzu-Li Chen**, James C. Chen and Dao-Liang Wang, "Combine Quick Changeover Technique with Other Lean Methods for Lean Healthcare Management", *International Conference on Advanced Technology Innovation 2017*, Samui, Thailand, June 25 - 28, 2017.
36. **Tzu-Li Chen**, James C. Chen and Wei-Lun Hu, "Solving a Simultaneous Scheduling Problem with a Quantile-Based Optimization Approach", *International Conference on Advanced Technology Innovation 2017*, Samui, Thailand, June 25 - 28, 2017.
37. I-Chin Wu, **Tzu-Li Chen**, Yen-Ming Chen, Tzu-Chi Liu and Yi-An Chen, "Analyzing Load Profiles of Electricity Consumption by a Time Series Data Mining Framework", *The 19th International Conference on Human-Computer Interaction*, Vancouver, Canada, 2017.
38. **Tzu-Li Chen**, James C. Chen, W. C. Peng, P. H. Chiu, C. Y. Kuo and Y. S. Sun, "Design and Analysis of Automated Guided Vehicle System under Single-Loop and Bi-Directional



- Layouts”, *The 16th Asia Pacific Industrial Engineering & Management Systems (APIEMS) Conference*, Ho Chi Minh City, Vietnam, December 08 - 11, 2015.
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