115 年 4 月　不通過 學術審查

年　　級：博六 （109 年入學）

著作列表 (*與博士論文相關)

The symbol (*) indicates that the paper is related to the Doctoral dissertation.

Journal Papers

1. **學生 A,** C. Y. Huang, S. Y. Lee, Y. H. Tseng, and C. W. Chu, "Improving the Performance of Software Fault Localization with Effective Coverage Data Reduction Techniques," *Journal of Systems and Software*, Vol.226, Aug. 2025, https://doi.org/10.1016/j.jss.2025.112388. **(*)**
   (SCI, 2024 Impact factor: 4.1, JIF rank: 23/128, JIF Percentile: 82.4, Quartile: Q1, JCI rank: 25/128, JCI Percentile: 80.86, Quartile: Q1)
   對應到博士論文的主要章節： 第三章、第六章、第七章
2. J. S. Lin, C. Y. Huang, and **學生 A**, "Analysis and Assessment of Software Reliability Modeling with Preemptive Priority Queueing Policy," *Journal of Systems & Software*, Vol. 187, May 2022. (SCI, 2020 Impact factor: 2.829, JIF rank: 28/108, Quartile: Q2)
3. Y. F. Hou, C. Y. Huang, and **學生 A**, "Using the Methods of Statistical Data Analysis to Improve the Trustworthiness of Software Reliability Modeling," *IEEE Access*, Vol. 10, pp. 25358-25375, 2022, doi: 10.1109/ACCESS.2022.3154103. (SCI, 2021 Impact factor: 3.476, JIF rank:79/164, Quartile: Q2)

Conference Papers

1. C. E. Hsiang, C. Y. Huang, and **學生 A,** "An Empirical Study on Quantifying and Evaluating Coupling in Open Source Software," Proceedings of the 12th IEEE International Conference on Dependable Systems and Their Applications (DSA 2025), Dubai, United Arab Emirates, Nov. 2025, pp. 195-206.
2. **學生 A** and C. Y. Huang, "An Innovative Method for Efficient Coverage Data Reduction in Multiple Fault Localization," *2024 IEEE 48th Annual Computers, Software, and Applications Conference (COMPSAC)*, Osaka, Japan, 2024, pp. 1570-1571. **(*)**
   對應到博士論文的主要章節： 第三章第一節、第六章第一節、第六章第四節、第六章第五節
3. **學生 A** and C. Y. Huang, "A Multiple-Criteria Ensemble Weight Strategy to Increase the Effectiveness of Deep Learning-based Fault Localization," *Proceedings of the 10th IEEE International Conference on*

Dependable Systems and Their Applications (DSA 2023), Tokyo, Japan, Aug. 2023. **(*)**

對應到博士論文的主要章節： 第五章第三節、第六章第一節、第六章第四節、第六章第七節

4. T.Y. Lin, C. Y. Huang and **學生 A**, "Using the Deep Learning-Based Approaches for Program Debugging and Repair," *Proceedings of the 10th IEEE International Conference on Dependable Systems and Their Applications* (DSA 2023), Tokyo, Japan, pp.443-454, Aug. 2023.

5. **學生 A** and C. Y. Huang, "Adopting Pre- and Post-Processing Weight Mechanisms to Improve Deep Learning-Based Fault Localization," *Proceedings of the 2022 IEEE International Conference on Industrial Engineering and Engineering Management* (IEEM 2022), Kuala Lumpur, Malaysia, Dec. 2022. pp. 0781-0785, doi: 10.1109/IEEM55944.2022.9989838. **(*)**

對應到博士論文的主要章節： 第五章第一節、第五章第二節、第六章第一節、第六章第四節 、第六章第七節

6. T. Y. Yu, C. Y. Huang, and **學生 A**, "Use of Deep Learning Model with Attention Mechanism for Software Fault Prediction," *Proceedings of the 8th International Conference on Dependable Systems and Their Applications (DSA 2021)*, pp. 161-171, 2021.

Paper under review

1. **學生A** and C. Y. Huang, "Two-Phase Clustering for Multiple Fault Localization with Deep Learning and Spectrum-Based Techniques," *IEEE Transactions on Emerging Topics in Computing.* (TETC-2025-07-0276, Awaiting Reviewer Score) **(*)**

   2025.07.05: paper submitted

   2025.12.19: inquired about the current status of our manuscript

   2026.02.20: inquired again about the current status of our manuscript

   對應到博士論文的主要章節： 第四章、第六章、第七章

   For more information, please refer to special notes.

2. J.R Lin, C.Y.Huang, and **學生A**, "Bidirectional Program Dependency-Guided Attention for Improved Method-Level Software Defect Prediction," Journal of Software: Evolution and Process. (JSME-25-0492, Awaiting Reviewer Score)

   2025.08.09 paper submitted

   2025.12.19: inquired about the current status of our manuscript

競賽

1. 21屆育秀盃創意獎，"Chat 食有料-結合生成式ＡＩ的智能 健康管家"，佳作獎，2024

2. 放視大賞，”可靠的健談-跨平台健康資訊系統”行動應用類軟體內容組，入圍，2022

115 年 4 月　通過 學術審查

年　　級：博 四 (110 碩入，111 下直升)

著作列表 (*與博士論文相關)

Journal Paper

1. *學生 A, Shih-Chieh Chen, Jian-Jhih Kuo, Yi-Hsuan Peng, Yu-Wen Chen, and Ming-Jer Tsai, “Battery Swapping Tour Optimization Problem in Dockless Electric Bike Sharing Service Systems With Distance-Aware User Incentives,” IEEE Transactions on Services Computing, vol. 18, no. 4, pp. 1938-1951, July-Aug. 2025.

Conference Papers

1. 學生 A, Guo-Wei Huang, Kuan-Hsiang Lo, Jian-Jhih Kuo, Yu-Wen Chen, and Ming-Jer Tsai, “Dual Time-Constrained UAV Routing for Reward Maximization Under Joint Multi-PoI Capture,” accepted by IEEE International Conference on Communications (ICC), Glasgow, Scotland, UK, May 24-28, 2026.
2. 學生 A, Yung-Hsiang Chang, Jing-Jhih Du, Juliette Chou Le Touze, Jian-Jhih Kuo, Chih-Yu Wang, and Ming-Jer Tsai, “Joint RIS Assignment and Entanglement Distribution With Purification in FSO-Based Quantum Networks,” accepted by IEEE Global Communications Conference (GLOBECOM), Taipei, Taiwan, Dec. 8-12, 2025.
3. 學生 A, Guo-Wei Huang, Kuan-Hsiang Lo, Shao-Lun Sun, Yu-Wen Chen, Jian-Jhih Kuo, and Ming-Jer Tsai, “Online Dual-Resolution 3D Map Caching Algorithm Using MILP as a Neural Network Proxy,” in the 34th International Conference on Computer Communications and Networks (ICCCN), Tokyo, Japan, Aug. 4-7, 2025.
4. 學生 A, Shih-Chieh Chen, Yi-Hsuan Peng, Yu-Wen Chen, Jian-Jhih Kuo, and Ming-Jer Tsai, “Near-Optimal Content Service Algorithm With Procurement and Placement in Edge Networks,” in IEEE Global Communications Conference (GLOBECOM), Cape Town, South Africa, Dec. 8-12, 2024.
5. 學生 A, Shih-Chieh Chen, Yi-Hsuan Peng, Yu-Wen Chen, Jian-Jhih Kuo, and Ming-Jer Tsai, “Near-Optimal Battery Swapping Algorithm in Dockless Electric Bike Sharing Systems,” in IEEE International Conference on Communications (ICC), Denver, CO, USA, Jun. 9-13, 2024.

Papers Under Review

1. *學生 A, Tzu-Chieh Lin, Shih-Chieh Chen, Yu-Wen Chen, Jian-Jhih Kuo, and Ming-Jer Tsai, “Online EV Fast Charging Scheduling With Energy Storage

System Using a Profit-Predictable MILP," submitted to IEEE Transactions on Intelligent Transportation Systems (Major Revision).

2. 學生 A, Guo-Wei Huang, Shao-Min Huang, Jian-Jhih Kuo, Chih-Yu Wang, and Ming-Jer Tsai, "PRISM: IRS-Assisted Entanglement Distribution With Purification in FSO Quantum Networks," submitted to IEEE Transactions on Communications (Under Review).