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Education

M.S., Computer Science and Information Engineering, National Taipei University of Technology
September 2024 ~ Present
GPA: 4.0 / 4.0

Publication　Conference Paper

[1] Y.-C. Chang*, Y.-X. Lin, Y.-C. Lung, and W. Chien*, "Vision-based Real-time Sign Spelling System for Cross-lingual Translation using Neural Models," *accepted for presentation in Proceedings of the 2025 IEEE International Conference on Computation, Big-Data and Engineering*, Jun. 2025. （第一及通訊作者, 報告展示, Best Conference Award ）

[2] Y.-C. Chang*, "Pixel-Level Cryptographic Hashing for Image Authentication and Recovery," *accepted for presentation in Proceedings of the 2025 IEEE International Conference on Computation, Big-Data and Engineering*, Jun. 2025. （獨立著作）

[3] Y.-C. Chang*, H.-Y. Gu, Z.-R. Wu, Z.-Q. Chang, L.-C. Chen, W.-L. Willam Cheong, X.-Y. Lim, and W. Chien*, "Modular Model Stacking Based on YOLO: A Novel Approach for Model Extension Without Retraining," *accepted for presentation in Proceedings of the 2025 IEEE International Conference on Computation, Big-Data and Engineering*, Jun. 2025. （第一及通訊作者, 報告展示）

[4] W.-M. Xie, C.-C. Yang, Z.-Y. Wei, Y.-X. Lin, Y.-C. Lung, L.-Z. Chen, Z.-R. Wu, Y.-C. Chang*, and W. Chien*, "AI-Driven Analysis of New Energy Technology Development and Strategic Planning in Asia from a Global Perspective," *accepted for presentation in Proceedings of the 2025 IEEE International Conference on Computation, Big-Data and Engineering*, Jun. 2025. （共同通訊作者）

[5] S.-T. Tsai, Z.-R. Wu*, P.-H. Lin, C.-H. Chen, W. Chien, and Y.-C. Chang*, "Comparative Analysis of Real-time Multi-person Pose Detection in Electrical Industrial Safety Scenarios using YOLOv8-Pose and OpenPose," *in Proc. of 2024 IEEE 4th International Conference on Electronic Communications, Internet of Things and Big Data*, pp. 327-330, Apr. 2024. （共同通訊作者, 報告展示）

[6] S.-T. Tsai, Z.-R. Wu, Y.-C. Chang*, W.-H Lin, and W. Chien*, "Leveraging Advanced Computer Vision for Hazardous Behavior Monitoring in Campus Safety Maintenance," *in Proc. of 2024 IEEE 4th International Conference on Electronic Communications, Internet of Things and Big Data*, pp. 507-509, Apr. 2024. （共同通訊作者）
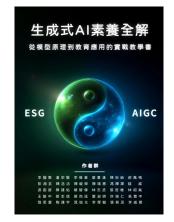
(Publication) Conference Paper

[7] S.-T. Tsai, Y.-C. Chang*, C.-Y. Huang, F.-Y. Yang, W. Chien, and Z.-R. Wu*, "Using Real-time Integrated Computer Vision and Deep Learning for Advanced Factory Safety," *in Proc. of 2024 IEEE 4th International Conference on Electronic Communications, Internet of Things and Big Data*, pp. 647-649, Apr. 2024. （共同通訊作者, 報告展示）

[8] M.-H. Ho, S.-Y. Huang*, Y.-C. Chang, and C.-W. Ruo, "An Outdoor Rescue System Using LoRa Communication Network," *presented at the 2023 IEEE 9th International Conference on Applied System Innovation*, Apr. 2023.

[9] Y.-C. Chang, H.-W. Tsai*, C.-Y. Huang, and Z.-R. Wu, "Based-on Computer Vision Applications for Bus Stop Passenger Detection Systems, "*in Proc. of 2023 IEEE 3rd International Conference on Electronic Communications, Internet of Things and Big Data*, pp. 152-154, Apr. 2023. （第一作者, 報告展示, Best Conference Award）

[10] Y.-D. Chen and Y.-C. Chang*, "AI-DAS: AI-Based Driving Assistance System for Scooters for Traffic Accident Avoidance," *Engineering Proceedings*, vol. 55, no. 1, p. 58, 2023. doi: 10.3390/engproc2023055058, Jun. 2023. （通訊作者, 報告展示）

[11] Yen-Da Chen, Yu-Cheng Chang*, Hua-Wen Tsai*"應用電腦視覺的手語注音符號辨識與影像分析研究," *presented at the 2023 18th Workshop on Wireless, Ad-Hoc and Sensor Networks,* Aug. 2023. （通訊作者）

[12] Yu-Cheng Lung, Yu-Xuan Lin, Yu-Cheng Chang*, Hua-Wen Tsai*, Yen-Da Chen"植基於多模態視覺感知網路於即時語意建構之手語轉譯研究," *presented at the 2025 20th Workshop on Wireless, Ad-Hoc and Sensor Networks,* Aug. 2025. （共同通訊作者, 報告展示）

[13] 蔡華文*, 張育丞*, 楊敦傑, 楊竣捷, 徐茂霖, "應用電腦視覺之大眾運輸維安輔助系統," *presented at the 2023 Symposium on Digital Life Technologies*, May. 2023. （共同通訊作者, 報告展示）

[14] 張哲唯*,林千瓏, 林郁芮, 江采淳, 陳紫菱, 張育丞, "基於心率之性向評估手機應用程式實作," *presented at the Taiwan Academic Network Conference 2022, "* Dec. 2022.

[15] Y.-D. Chen*, H.-W. Tsai, Y.-Z. Liao, and Y.-C. Chang, "基於影像辨識之益智迷宮小遊戲," *presented at the 2022 26th Mobile Computing Workshop,"* Aug. 2022. （報告展示）

(Publication) Book

[1] 李國憲, 潘宗賢, …, 張育丞, 李威儒《生成式AI素養全解: 從模型原理到教育應用的實戰教學書》," ISBN: 978-696-01-4422-7, Jul. 2025.

(Projects) NSTC Research Grant

[1] I-MAS (Intelligent Moto Assistance System), NSTC 111-2813-C-262-010-E, 2022/07/01~2023/02/28.

[2] I-MAS 2.0 (Intelligent Moto Alert System), NSTC 112-2813-C-262-010-E, 2023/07/01~2024/02/28.

Awards Competition / Invention / Pitch

[1] 2025 捷運盃黑客松「設計創新」‧AI 賦能」App 競賽, "Nxt-Gen 捷運Go", 進入決賽（爭取前三名）

[2] 2025 E化系統創新應用競賽, 基於骨架物件的多使用者即時於英文拼字翻譯的手語系統, 第二名

[3] 2025 E化系統創新應用競賽, 結合深度學習與即時電腦視覺於高級工場安全智慧化系統 , 優選（第四名）

[4] 2023 E化系統創新應用競賽, 應用於鐵路維安之智慧警示系統, 第一名

[5] 2023 第四屆大手攜小手智慧創新應用競賽, 應用於鐵路維安之智慧警示系統, 季軍

[6] 2022 車用電子創新發明競賽,植基於深度學習之影像辨識智慧車輛輔助系統, 第二名

Certification

[1] Python, Information Technology Specialist (ITS), Jun. 2023.

[2] Networking Fundamentals, Microsoft Technology Associate (MTA), Jun. 2021.

[3] 工業配線 丙級,中華民國勞動部, Sep. 2018..

Talk

[1] 國中生涯發展教育「九年級技藝教育課程學長姐經驗分享」講座, 新北市立三民高級中學, Jan. 2023.

[2] 新北市西區資訊種子教師研習暨全體教師研習「智慧你我 玩轉生活」, 新北市政府教育局, 新北市蘆洲區鷺江國民小學, Oct. 2022.

[3] 新北市職業試探暨體驗教育中心【學期間】職業試探暨體驗教育活動, 新北市立淡水高級商工職業學校, Oct. 2022.

[4] 新北市高級中等學校學科能力精進暨雙連學制推動計劃「科展認識與方向探索」學生講座, Sep. 2022.

[5] 「十年科展，十年夢」教師研習講座,新北市立淡水高級商工職業學校, Aug. 2022.

[6] 國中生涯發展教育「校友返校升學經驗分享」講座,新北市立淡水高級商工職業學校, Jun. 2020.