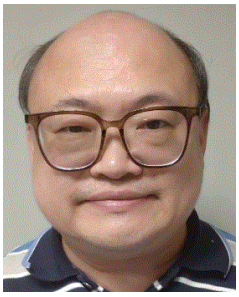

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☆ 美國紐約州立大學(石溪分校)電機電腦工程研究所博士課程 (1991.8 ~ 1993.7)

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■ 學術經歷：
☆ Fellow, Vebleo (June 2022- date)
☆ Technical Paper Reviewer, IEEE Systems Journal (Feb. 2022- date).
☆ Technical Paper Reviewer, IEEE ICC, IEEE Globecom (April 2004- date).
☆ Technical Paper Reviewer, Electronics (April 2023- date).
☆ Technical Paper Reviewer, Mathematical Biosciences and Engineering on Intelligent Computing (June 2018- date).
☆ Technical Paper Reviewer, Future Internet (June 2016- date).
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☆ Editor, International Journal of Electronics and Information Engineering

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☆ **Chair, International Workshop on Electronic and Information Technology (2018-- date).**
☆ **Co-General Chair, 2023 International Conference on Awareness Science and Technology (iCAST 2023) (Dec. 2023).**
☆ **General Chair, 2020 International Symposium on Sensors, Mechatronics and Automation System (May, 2020).**
☆ **Steer Chair, The 21st International Conference on Intelligent Information Hiding and Multimedia Signal Processing (IIHMSP 2025) (Oct. 2025).**
☆ **Steer Chair, 2007 AI Forum (May 2007).**
☆ **TPC since 2004, IEEE Satellite & Space Communications Society.**
☆ **TPC since 2018, IEEE Communications Systems Integration & Modeling Society.**
☆ **TPC, 2025 IEEE International Conference on Computer Science, Technology and Engineering (ICCSTE2025), (Sept 2025).**
☆ **TPC, IEEE ICC 2026**
☆ **TPC, IEEE Globecom 2003, 2025**
☆ **Keynote Speaker, 2021 International Conference on Sensing Technology and Applications (April 2021)**
☆ **Keynote Speaker, 2020 International Symposium on Sensors, Mechatronics and Automation System (Feb. 2020).**
☆ **Keynote Speaker, 2016 International Conference for Top and Emerging Computer Scientists (Dec. 2016).**
☆ **專題演講，109 年前瞻技畫資安防護及區域聯防服務，台中市政府 (109.06)**

■學術獎勵及榮譽事蹟：

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☆ **Best Paper Award, International Computer Symposium ICS 2022**
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☆ **Best Presentation Award, 2018 IEEE 4th International Conference on Computer and Communication**
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☆ **Marquis Who's Who in the World, 33rd Edition, New Providence, NJ, USA, 2016**

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☆ 主持人，在安全式合作通訊環境下中繼站選擇機制之研究，106-2221-E-845 -001 –

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☆ 共同主持人,跨區域大量傷病患之緊急醫療調節中心施行策略--子計畫:緊急醫療調節中心(EMRC)緊急救護資訊平台建置(I)，105-2625-M-022 -001 –

☆ 共同主持人，台灣瓦楞紙玩具之市場調查與潛力分析，103-2622-H-150 -001 -CC3

☆ 共同主持人，雲端與行動智慧整合之安全電子投票系統，103-2622-E-468 -001 -CC2

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☆ 主持人，使用動差母技術之極限研究-以行動衛星系統效能評估為例，98-2221-E-133 -001 –

☆ 共同主持人，自癒型通訊系統之實務應用與測試，亞力電機股份有限公司

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☆ 主持人，低密度附加碼輔助等化器於衛星頻道下之效能評估，94-2213-E-150 -011 –

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☆ 共同主持人，教育部通訊科技教育改進計畫第四期，教育部顧問室

☆ 主持人，協同式資料探勘網路服務平台，92-2218-E-150 -007 –

☆ 主持人，使用窩輪編碼輔助等化器之研究，92-2213-E-150 -035 –

☆ 主持人，IEEE International Conference on Beyond 3G Wireless Communication，90-2914-I-324 -003 -A1

☆ 主持人，第三代行動通訊渦輪碼抗衰褪效應之研究，90-2213-E-324 -010 –

■ 近五年研究著作：

專書：

Robert Stahlbock, Gary M. Weiss, Mahmoud Abou-Nasr, **Cheng-Ying Yang**, Hamid R. Arabnia, Leonidas Deligiannidis. ***Transactions on Computational Science and Computational Intelligence*** (ISBN: 2569-7072). USA: Springer Nature. Aug, 2021.

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- **Yang, C. Y.**, Lin, Y. N., Shen, V. R., Shen, F. H., & Jheng, W. S (2025, Jul). A Novel IoT-Enabled System for Real-Time Monitoring Home Appliances Using Petri Nets. IEEE Canadian Journal of Electrical and Computer Engineering, 48(3), 204 - 215.
- **Cheng-Ying Yang**, Yi-Nan Lin, Victor RL Shen, Frank HC Shen, Yan-Cheng Lin (2025, Mar). Petri net modeling and analysis of an IoT-enabled system for real-time monitoring of eggplants. Systems Engineering, 28(2), 270-283. (SCI).
- Jong-Shin Chen, Ruo-Wei Hung, **Cheng-Ying Yang*** (2025, Feb). An Efficient Target-to-Area Classification Strategy with a PIP-Based KNN Algorithm for Epidemic Management. Mathematics, 13(4) 661. (SCI).
- **Cheng-Ying Yang**, Min-Shiang Hwang, Yu-Wei Tseng, Chou-Chen Yang, Victor RL Shen (2024, Dec). Advancing financial forecasts: stock price prediction based on time series and machine learning techniques. Applied Artificial Intelligence, 38(1), 2429188. (SCI).
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- Min-Shiang Hwang, Hou-Wen Li, **Cheng-Ying Yang*** (2024, Jul). An Improvement of A Robust Authentication Protocol for Multi-server Architecture Using Elliptic Curve Cryptography. International Journal of Network Security, 26(4), 713-718. (EI). NSTC 111-2221-E-845-003.
- **Cheng-Ying Yang**, Jong-Shin Chen, Jenq-Foung JF Yao, Min-Shiang Hwang (2024, Mar). A Study on Cypher Assignment Based on Secrecy Capacity. International Journal of Network Security, 26(2), 167-172. (EI). NSTC 111-2221-E-845-003.
- **Cheng-Ying Yang**, Yi-Nan Lin, Sheng-Kuan Wang, Victor RL Shen, Yi-Chih Tung, Jia-Fu Lin (2024, Feb). An Edge Computing System for Fast Image Recognition Based on Convolutional Neural Network and Petri Net Model. Multimedia Tools and Applications, 83(5), 12849-12873. (SCI). NSTC 111-2221-E-845-003.
- **Cheng-Ying Yang**, Yi-Nan Lin, Sheng-Kuan Wang, Victor RL Shen, Yi-Chih Tung, Frank HC Shen, Chun-Hsiang Huang (2023, Dec). Smart control of home appliances using hand gesture recognition in an IoT-enabled system. Applied Artificial Intelligence, doi.org/10.1080/08839514.2023.2176607. (SCI). NSTC 111-2221-E-845-003.
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- **Cheng-Ying Yang**, Yi-Nan Lin, Victor R.L. Shen, Frank H.C. Shen, and Chien-Chi Wang (2023, Sep). A Novel IoT-Enabled System for Real Time Face Mask Recognition Based on Petri Nets. IEEE Internet of Things Journal, DOI: 10.1109/JIOT.2023.3313583. (SCI, 4/158, COMPUTER SCIENCE, INFORMATION SYSTEMS - SCIE: Q1). 本人為第一作者.
- Huang, Jr-Jen, **Yang, Cheng-Ying**, Lin, Yi-Nan, Shen, Victor R.L., Lin, Chia-Tsai, Shen, Frank H.C. (2023, Aug). Novel Emotion Recognition System Using Edge Computing Platform with Deep Convolutional Networks. Journal of Intelligent & Fuzzy Systems, 45(2), 2669-2683. (SCI).
- **Cheng-Ying Yang**, Yi-Nan Lin, Sheng-Kuan Wang, Victor R.L. Shen, Yi-Chih Tung & Jia-Fu Lin (2023, Jul). An Edge Computing System for Fast Image Recognition Based on Convolutional Neural Network and Petri Net Model. Multimedia Tools and Applications, 1-25. (SCI).
- Huang, Jr-Jen, **Yang, Cheng-Ying**, Lin, Yi-Nan, Shen, Victor R.L., Lin, Chia-Tsai, Shen, Frank H.C. (2023, Jun). Novel Emotion Recognition System Using Edge Computing Platform with Deep Convolutional Networks. Journal of Intelligent & Fuzzy Systems, 45(2), 2669-2683. (SCI, COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE - SCIE: Q4).
- Chang, I. C., **Yang, C. Y.,** Yao, J. F., & Yen, C. E. (2023, May). The effects of baby massage on physical development of infant. AIP Conference Proceedings, 2685 (1). (Scopus).
- Hwang, M. S., Li, H. W., & **Yang, C. Y.*** (2023, May). An Improved of Enhancements of a User Authentication Scheme. International Journal of Network Security, 25(3), 508-514. (EI).
- **Cheng-Ying Yang,** Yi-Nan Lin, Sheng-Kuan Wang, Victor R.L. Shen, Yi-Chih Tung, Frank H.C. Shen, Chun-Hsiang Huang (2023, Feb). Smart Control of Home Appliances Using Hand Gesture Recognition in an IoT-Enabled System. , VOL. 37, NO. 1, e2176607. (SCI). NSTC 111-2221-E-845-003.
- Te-Wei Chiang, **Cheng-Ying Yang**, Gwo-Jen Chiou, Frank Yeong-Sung Lin, Yi-Nan Lin, Victor R. L. Shen (2022, Nov). Development and Evaluation of an Attendance Tracking System Using Smartphones with GPS and NFC. Applied Artificial Intelligence, 36(1), 2083796. (SCI).
- Ing-Chau Chang, **Cheng-Ying Yang**, Chin-En Yen (2022, Oct). The Effects of Computer Game on Preschool Children's Nutrition Knowledge and Junk Food Intake Behavior. JMIR Serious Games, 10(3), e33137.. (SCI). MOST 110-2221-E-845-002.
- Yi-Nan Lin, **Cheng-Ying Yang**, Sheng-Kuan Wang, Gwo-Jen Chiou, Victor R.L. Shen,

Yi-Chih Tung, Frank H.C. Shen & Hung-Chi Cheng (2022, Aug). Development and Evaluation of an Intelligent System for Calibrating Karaoke Lyrics Based on Fuzzy Petri Nets. Applied Artificial Intelligence, https://doi.org/10.1080/08839514.2022.2110699. (SCI).

- Wen Xi, Wei Wu, and **Cheng-Ying Yang*** (2022, Jul). A Technical Review on Network Security Situation Awareness. International Journal of Network Security, 24(4), 587-596. (EI). MOST 107-2221-E-845-002-MY3. 本人為通訊作者.
- Te-Wei Chiang, **Cheng-Ying Yang**, Gwo-Jen Chiou, Frank Yeong-Sung Lin,Yi-Nan Lin,Victor R. L. Shen (2022, Jun). Development and Evaluation of an Attendance Tracking System Using Smartphones with GPS and NFC. Applied Artificial Intelligence, https://doi.org/10.1080/08839514.2022.2083796. (SCI).
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