

Chen Qiqi



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Academic Qualification

2018-2023	Ph.D.: The University of Hong Kong; Industrial and Systems Engineering;
2015-2018	Master: South China University of Technology, Computer Science and Technology;
2009-2013	BS: South China University of Technology, Network Engineering.

Working Experience

2026-Now	Assistant Professor / Macau University of Science and Technology
2023-2026	Postdoctoral Fellow / The Hong Kong Polytechnic University
2013-2015	Teaching Assistant / South China University of Technology

Teaching Activities

BBAZ16602 Data Structures and Database
MFTE05 Database Management Systems
Algorithm Analysis and Design (Guangdong University of Finance, Undergraduate)

Research Areas

IoT-enabled AI-enhanced industrial decision support system, Aviation maintenance operation management, Cyber-Physical Internet

Selected Publications

- Chen, Q., Zhao, Z., Ouyang, Z., Wang, Y. J., Yuan, Z., & Huang, G. Q.* (2025). Cyber-physical internet shipment execution protocols for aviation maintenance, repair and overhaul intralogistics. *Computers & Industrial Engineering*, 207, 111276.
- Zhao, Z., Xie, X., Chen, Q.*, Lin, P., Wu, W., Zhang, M., & Huang, G. Q. (2024). Graduation-inspired manufacturing system and synchronization mechanism for hybrid assembly cell lines. *Computers & Industrial Engineering*, 198, 110648.
- Chen, Q., Li, M., Xu, G., & Huang, G. Q.* (2023). Cyber-physical spare parts intralogistics system for aviation MRO. *Advanced Engineering Informatics*, 56, 101919.
- Wu, X., Wu, W., Chen, Q., Li, T., Cao, Y., Yan, C., ... & Huang, G. Q. (2026). Artificial Intelligence enhanced smart welding islands: Foundation models revolutionizing manufacturing. *Robotics and Computer-Integrated Manufacturing*, 102, 103341.
- Yuan, M., Chen, Q., Zhao, Z.*, Thürrer M., Qu, T., Huang, G. Q.(2026), Cyber-physical internet-enabled out-of-order execution considering workload for multi-stage scheduling in hybrid flow shop. *Journal of Manufacturing Systems*, 86, 82-97.
- Chen, Q., Ding, J., Sun, M., Zhao, Z., & Huang, G. Q. (2024, September). A Dynamic Fit-Out Scheduling Framework for Digital Twin-Enabled Modular Integrated Construction. In *IFIP International Conference on Advances in Production Management Systems* (pp. 168-179). Cham: Springer Nature Switzerland.
- Chen, Q., Zhao, Z., Luo, H., & Huang, G. G. (2023, August). Iot-enabled mro intralogistics management: A case study in hong kong. In *2023 IEEE 19th International Conference on Automation Science and Engineering (CASE)* (pp. 1-6). IEEE.

Other Professional Activities

- Reviewer, *Advanced Engineering Informatics*, *Computers & Industrial Engineering*, *Journal of the Air Transport Research Society*, *International Journal of Production Research*, *International Journal of Logistics Research and Applications*
- Committee Member, Technical Committee on Big Data of Chinese Society of Agricultural Engineering
- Certificate of Blended and Online Learning & Teaching (The Hong Kong Polytechnic University)

- Certificate of Introduction to University Teaching (The Hong Kong Polytechnic University)
- Certificate of Teaching and Learning in Higher Education (The University of Hong Kong)

Honors/Awards

- Best Report First Prize (1/3), LSCIAGBA 2025
- Best Poster Second Prize (1/6), 11th International Physical Internet Conference