

# Benedict Jun MA

Department of Industrial and Manufacturing Systems Engineering  
The University of Hong Kong (HKU)

📍 R8-25, 8/F, Haking Wong Building, Pokfulam Road, Hong Kong  
☎ +852-6686-4926 | ✉ bjma@connect.hku.hk | 🌐 LinkedIn

## EDUCATION

<b>The University of Hong Kong</b> PhD in Industrial and Manufacturing Systems Engineering <i>Supervised by Prof. Yong-Hong Kuo &amp; Prof. George Q. Huang</i>	Hong Kong 2024
<b>Northeast Forestry University</b> BEng in Control Science and Engineering (GPA: 93.5/100, Rank: 1/64) <i>Awarded China National Scholarship twice</i>	Harbin, China 2020

## ACADEMIC EXPERIENCE

<b>Mines Paris, PSL University</b> Visiting Doctoral Student in Center for Management Science <i>Supervised by Prof. Shenle Pan &amp; Prof. Eric Ballot</i>	Paris, France Aug – Nov 2023
<b>Rotterdam School of Management, Erasmus University</b> Visiting Researcher in Technology and Operations Management <i>Hosted by Prof. René de Koster</i>	Rotterdam, Netherlands Oct 2023
<b>NHH Norwegian School of Economics</b> Doctoral Student in Course BEA522 on Rural Logistics <i>Supported by Research Council of Norway</i>	Bergen, Norway Jul – Aug 2023
<b>Hong Kong University of Science and Technology</b> Visiting Internship Student in Electronic and Computer Engineering <i>Supervised by Prof. Weichuan Yu</i>	Hong Kong Jun – Aug 2019

## RESEARCH INTERESTS

- E-commerce Warehousing, Logistics and Supply Chain Management
- Computational Intelligence, Algorithm Design and Applications

## JOURNAL PUBLICATIONS

\* denotes the corresponding author

### - E-commerce Warehousing, Market Competition

1. **Ma BJ**, Kuo YH, Jiang Y, & Huang GQ\*. (2023). RubikCell: Toward Robotic Cellular Warehousing Systems for E-Commerce Logistics. *IEEE Transactions on Engineering Management*, Early Access.
2. **Ma BJ**, Zhang Y\*, Liu S, Jiang Y, He Y, & Yan K. (2022). Operational strategies for IoT-enabled Brick-and-Mortar retailers in a competitive market. *Computers & Industrial Engineering*, 173, 108665.
3. Xu TZ, Liu SS, **Ma BJ**, & Ng AKY\*. (2023). Impacts of advertising formation on adopting alternative fuel vehicles in a competitive market. *Transportation Research Part D*, 118, 103673.
4. Liu SS, Hua G\*, **Ma BJ**, & Cheng TCE. (2023). Competition between green and non-green products in the blockchain era. *International Journal of Production Economics*, 264, 108970.

## - Machine Learning, Computational Intelligence

1. **Ma BJ\***, Liu S, & Heidari AA. (2022). Multi-strategy ensemble binary hunger games search for feature selection. *Knowledge-Based Systems*, 248, 108787.
2. **Ma BJ**, Pereira JLJ, Oliva D, Liu S, & Kuo YH\*. (2023). Manta ray foraging optimizer-based image segmentation with a two-strategy enhancement. *Knowledge-Based Systems*, 262, 110247.
3. Pereira JLJ, **Ma BJ\***, Francisco MB, Junior RFR, & Gomes GF. (2023). A comparison between chaos theory and Lévy flights in sunflower optimization for feature selection. *Expert Systems*, 40(8), e13330.
4. Pereira JLJ, Francisco MB, de Almeida FA, **Ma BJ\***, Cunha SS, & Gomes GF. (2023). Enhanced Lichtenberg algorithm: a discussion on improving metaheuristics. *Soft Computing*, 27(21), 15619–15647.

## BOOK CHAPTERS

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1. **Ma BJ\***. Hybrid adaptive moth-flame optimizer and opposition-based learning for training multilayer perceptions. (2022). In: Integrating Meta-Heuristics and Machine Learning for Real-World Optimization Problems. *Studies in Computational Intelligence*. Cham: Springer International Publishing.

## WORKING PAPERS

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1. **Ma BJ**, Wang J, Kuo YH\*, Huang GQ. “Robotic Order Picking in Cellular Warehousing based on a Time-Space-State Network.” *IEEE Transactions on Cybernetics* (Under review).
2. Liu SS, **Ma BJ\***, Zhang, W, Cheng TCE., Li X. “Eliminating Information Asymmetry in Supply Chains: Blockchain-driven or not.” *Transportation Research Part E* (Under Review).
3. Wang J, **Ma BJ\***, Yang Y, Kuo YH, Cheng CH. “Group buying with consumer disappointment at failed deals.” *Transportation Research Part E* (Under review).
4. **Ma BJ**, Pan S, Zou B, Kuo YH\*, Huang GQ. “Operating Policies for Robotic Cellular Warehousing Systems” *Transportation Research Part E* (In preparation for submission).
5. Jiang Y, Li M, **Ma BJ**, Zhao, S, Zhong RY, Huang GQ\*. “Digital twin-enabled Out-of-Order (OOO) model for synchronized planning, scheduling, and execution in smart construction fit-out.” *Computer-Aided Civil and Infrastructure Engineering* (Under 2nd revision).
6. **Ma BJ**, Wang J, Kuo YH. “Dedicated or Shared: How do Third-Party E-commerce Warehouses Choose?” *Working*. (To be submitted to Production and Operations Management).

## RESEARCH GRANTS

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- **Intelligent Control of Fresnel Lens Spot in Aeroponic Energy-Saving Micro Plant Factory**  
National Innovation Training Program for Undergraduates (No. 201810225049), MOE, China  
**Principal Investigator**, RMB 20,000 2018 – 2019
- **SynchroHub: Cyber-Physical Internet for Synchronizing Cross-Border Logistics Hubs in the Greater Bay Area (GBA)**  
Theme-based Research Scheme (No. T32-707/22-N), RGC, Hong Kong  
**Researcher** (PC: George Q. Huang), HKD 42.6 Million 2023 – 2028

## PATENTS

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1. An Intelligent Warehouse Management System with Methods (No. 202210212235.1) In process
2. A plant factory based on Fresnel lens and ultrasonic atomization (No. CN208211121U) Authorized

## CONFERENCE PRESENTATIONS

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- “Dedicated or Shared: How do Third-Party E-commerce Warehouses Choose?”**  
The 33rd Annual POMS Conference, Orlando, USA May 2023
- “RubikCell: Towards Robotic Cellular Warehousing Systems for E-commerce Logistics”**  
The 50th Computers and Industrial Engineering (CIE) Conference, Sharjah-Dubai, UAE Oct 2023
- “Robotic Order Picking in Cellular Warehousing based on a Time-Space-State Network”**  
The 27th Hong Kong Society for Transportation Studies (HKSTS) Conference, Hong Kong Dec 2023
- “Operating Policies for Robotic Cellular Warehousing Systems”**  
The 14th POMS-HK International Conference, Hong Kong Jan 2024

## INVITED TALKS

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- “Optimization and Management in Robotic Cellular Warehousing Systems”**  
Business School, Sichuan University (SCU) Nov 2023
- “Outsourced Order Fulfillment in E-commerce: Warehousing Mode and Contract Choices”**  
Business School, Southern University of Science and Technology (SUSTech) Dec 2023
- “Robotic Order Picking in Cellular Warehousing based on a Time-Space-State Network”**  
Center for Transportation & Logistics, Massachusetts Institute of Technology (MIT) Feb 2024

## TEACHING

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- Teaching Assistant** The University of Hong Kong
- IMSE 4135 Systems Integration (UG) [rating: 80.0/100] Full Year 2023
  - IMSE 3107 Systems Modeling and Simulation (UG) [rating: 81.8/100] Spring 2023
  - IMSE 7221 Warehousing and City Logistics (PG) [rating: 94.2/100] Fall 2022
  - IMSE 7902 Project Management (PG) [rating: 91.7/100] Fall 2022
  - IMSE 7015 Engineering Economics and Finance (PG) [rating: 86.4/100] Fall 2021

## HONOR & AWARD

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- Postgraduate Scholarship (PGS) in HKU 2020 – 2024
- China National Scholarship 2017 & 2018 (Twice)
- 2018 International Mathematical Contest in Modeling (MCM) Meritorious Winner
- 2017 RoboMaster Robotics Competition Second Prize

## PROFESSIONAL SERVICES

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### Reviewer for Journals:

Applied Intelligence  
Archives of Civil Engineering  
Archives of Computational Methods in Engineering  
Computers & Industrial Engineering  
Evolving Systems  
Expert Systems with Applications  
IEEE Access  
IEEE Transactions on Network Science and Engineering  
Information Fusion

International Journal of Production Research  
Journal of Bionic Engineering  
Knowledge-Based Systems  
Neural Computing and Applications  
PLOS One  
Recent Advances in Electrical & Electronic Engineering  
Soft Computing  
Transportation Research Part E

#### **Reviewer for Conferences:**

IEEE International Conference on Robotics and Automation (ICRA 2022)  
18th IFAC Symposium on Information Control Problems in Manufacturing

## MEMBERSHIP

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- Institute of Electrical and Electronics Engineers (IEEE)
- Institute of Industrial and Systems Engineers (IISE)
- Production and Operations Management Society (POMS)
- Institute for Operations Research and the Management Sciences (INFORMS)
- Operational Research Society of Hong Kong (ORSHK)
- International Federation of Operational Research Societies (IFORS)

## REFEREES

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- Prof. Yong-Hong Kuo  
Assistant Professor at Industrial and Manufacturing Systems Engineering  
The University of Hong Kong, Hong Kong  
Email: yhkua@hku.hk
- Prof. George Q. Huang  
Chair Professor of Smart Manufacturing  
Department of Industrial & Systems Engineering  
The Hong Kong Polytechnic University, Hong Kong  
Email: gq.huang@polyu.edu.hk
- Prof. René de Koster  
Professor of Logistics and Operations Management  
Department of Technology and Operations Management, Rotterdam School of Management  
Erasmus University, Rotterdam, Netherlands  
Email: rkoster@rsm.nl
- Prof. Shenle Pan  
Professor in Sustainable Logistics and Supply Chain Management  
Center for Management Science, Mines Paris, PSL University, Paris, France  
Email: shenle.pan@minesparis.psl.eu
- Prof. Eric Ballot  
Professor of Production and Logistics  
Center for Management Science, Mines Paris, PSL University, Paris, France  
Email: eric.ballot@mines-paristech.fr