

# 姜慧敏



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## 教育背景

|             |                   |
|-------------|-------------------|
| 2010 – 2014 | 博士：香港理工大学，工业与系统工程 |
| 2006 – 2009 | 硕士：南开大学，系统工程      |
| 2002 – 2006 | 学士：湘潭大学，自动化       |

## 工作经验

|             |             |
|-------------|-------------|
| 2026 – 至今   | 副教授/澳门科技大学  |
| 2020 – 2026 | 助理教授/澳门科技大学 |
| 2018 – 2020 | 助理教授/深圳大学   |
| 2018        | 研究员/香港理工大学  |
| 2017 – 2018 | 博士后/香港理工大学  |
| 2013 – 2017 | 副研究员/香港理工大学 |
| 2008 – 2010 | 研究助理/香港理工大学 |

## 教学活动

应用统计；商务统计；电子商务；信息技术服务管理

## 研究领域

智能建模与预测，可解释人工智能，优化算法，数据挖掘，新产品设计与开发

## 学术成果

期刊论文

**Huimin Jiang, Yide Zhuang, and Farzad Sabetzadeh (2025).** COA-based nonlinear fuzzy time-series model for dynamic analysis of customer satisfaction. *Knowledge-Based Systems*, 331(2025), 114832. (SCI Q1).

**Huimin Jiang**, and Farzad Sabetzadeh (2025). A chaos-driven fuzzy neural approach for modeling customer preferences with self-explanatory nonlinearity. *Systems*, 13(10), 888. (SSCI Q1).

**Huimin Jiang**, Farzad Sabetzadeh, and Chen Zhang (2024). An intelligent adaptive neuro-fuzzy inference system for modeling time-series customer satisfaction in product design. *Systems*, 12(6), 224. (SSCI Q1).

**Huimin Jiang**, and Farzad Sabetzadeh (2023). A Multi-Objective Optimization-Algorithm-Based ANFIS Approach for Modeling Dynamic Customer Preferences with Explicit Nonlinearity. *Mathematics*, 11(21), 4559. (SCI Q1).

**Huimin Jiang**, Xianhui Wu, Farzad Sabetzadeh, and Kit Yan Chan (2023). Developing explicit customer preference models using fuzzy regression with nonlinear structure. *Complex & Intelligent Systems*, 9, 4899-4909. (SCI Q1).

**Huimin Jiang**, Farzad Sabetzadeh, and Kit Yan Chan (2023). Developing Nonlinear Customer Preferences Models for Product Design Using Opining Mining and Multiobjective PSO-Based ANFIS Approach. *Computational Intelligence and Neuroscience*, 2023, 6880172. (SCI Q2).

**Huimin Jiang**, Farzad Sabetzadeh, Zhijun Lin, and Huajun Tang (2022). Nonlinear time series fuzzy regression for developing explainable consumer preferences models based on online comments. *IEEE Transactions on Fuzzy Systems*, 30(10), 4460-4470. (SCI Q1).

**Huimin Jiang**, Gaicong Guo, Farzad Sabetzadeh, Kit Yan Chan (2022). Model variational consumer preferences based on online reviews using sentiment analysis and PSO-based DENFIS approaches. *Journal of Intelligent & Fuzzy Systems*, 43(3), 2407-2418. (SCI Q4).

**Huimin Jiang**, C.K. Kwong, G.E. Okudan Kremerc, and W.Y. Park (2019). Dynamic modelling of customer preferences for product design using DENFIS and opinion mining. *Advanced Engineering Informatics*, 42, 100969. (SCI Q1).

**Huimin Jiang**, C. K. Kwong, C.Y. Chan and K. L. Yung (2019). A Multi-Objective Evolutionary Approach for Fuzzy Regression Analysis. *Expert Systems with Applications*, 130(2019), 225-235. (SCI Q1).

**Huimin Jiang**, C.K. Kwong, W.Y. Park and K.M. Yu (2018). A multi-objective PSO approach of mining association rules for affective design based on online customer reviews. *Journal of Engineering Design*, 29(7), 381-403. (SCI Q3).

**Huimin Jiang**, C. K. Kwong and K. L. Yung (2017). Predicting future importance of product features based on online customer reviews. *Journal of Mechanical Design*, 139(11), 111413-1-10. (SCI Q1).

**Huimin Jiang**, C. K. Kwong and Woo-Yong Park (2017). Probabilistic fuzzy regression approach for preference modeling. *Engineering Applications of Artificial Intelligence*,

64(2017), 286-294. (SCI Q1).

C. K. Kwong, **Huimin Jiang** and X. G. Luo (2016). AI-based methodology of integrating affective design, engineering, and marketing for defining design specifications of new products. *Engineering Applications of Artificial Intelligence*, 47(2016), 49-60. (SCI Q1).

**Huimin Jiang**, C. K. Kwong, K. W. M. Siu and Y. Liu (2015). Rough set and PSO-based ANFIS approaches to modeling customer satisfaction for affective product design. *Advanced Engineering Informatics*, 29(3), 727-738. (SCI Q1).

**Huimin Jiang**, C. K. Kwong, Y. Liu and W. H. Ip (2015). A methodology of integrating affective design with defining engineering specifications for product design. *International Journal of Production Research*, 53(8), 2472-2488. (SCI Q2).

**Huimin Jiang**, C. K. Kwong, W. H. Ip and Zengqiang Chen (2013). Chaos-based fuzzy regression approach to modeling customer satisfaction for product design. *IEEE Transactions on Fuzzy Systems*, 21(5), 926-936. (SCI Q1).

**Huimin Jiang**, C. K. Kwong, Zengqiang Chen and Y. C. Ysim (2012). Chaos particle swarm optimization and T-S fuzzy modeling approaches to constrained predictive control. *Expert Systems with Applications*, 39(1), 194-201. (SCI Q1).

**H. M. Jiang**, C. K. Kwong, W. H. Ip and T. C. Wong. (2012). Modeling customer satisfaction for new product development using a PSO-based ANFIS approach. *Applied Soft Computing*, 12(2), 726-734. (SCI Q1).

#### 书籍章节

**Huimin Jiang**, C. K. Kwong, and X. G. Luo (2016). Intelligent Quality Function Deployment. Title of book: Intelligent Decision Making in Quality Management, vol. 97, 327-362. Switzerland: Springer.

#### 学术会议论文

**Huimin Jiang**, and Yide Zhuang (2025). PSO-Based Fuzzy C-Means and Fuzzy Rough Set Approaches for Enhanced Rule Mining. *International Conference on Advances in Business Management and Information Science (ICABMIS-25)*, Chiang Mai, Thailand. Published in the journal Computational Intelligence and Machine Learning, 6(2), 117-125.

**Huimin JIANG**, Xiaotong Li, and Farzad Sabetzadeh (2025). Development of Explainable Consumer Satisfaction Models: A Nonlinear Dynamic Fuzzy Regression Methodology Based on Online Reviews. *7th International Conference on Intelligent and Fuzzy Systems - Artificial Intelligence in Human-Centric, Resilient & Sustainable Industries (INFUS2025)*, Istanbul, Turkey.

Yide Zhuang, and **Huimin Jiang** (2025). Big Data-Driven Prediction of Sentiment Trends in Online Reviews. *2025 IEEE 2nd International Conference on Big Data*

*Science and Engineering (ICBDSE)*, Kunming.

**Huimin Jiang**, and Farzad Sabetzadeh (2022). Defining the Settings of Product Attributes for Product Design Using an Innovative NSGA-II. *2022 International Conference on Frontiers of Artificial Intelligence and Machine Learning (FAIML 2022)*, Hangzhou, 1-8.

**Huimin Jiang**, Chunsheng Li, and Farzad Sabetzadeh (2021). Modelling Time Series Customer Preference Based on E-commerce Website. *Proceedings of the 2021 3rd International Conference on Economic Management and Cultural Industry (ICEMCI 2021)*, Xi'an, 3222-3227.

**Huimin Jiang**, Farzad Sabetzadeh, and C.K.Kwong (2021). Dynamic analysis of customer needs using opinion mining and fuzzy time series approaches. *2021 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE)*, Luxembourg, 1-6.

**Huimin Jiang**, Gaicong Guo, and Farzad Sabetzadeh (2021). Opinion mining and DENFIS approaches for modelling variational consumer preferences based on online comments. *Proceedings of 2nd International Conference on Advanced Intelligent Technologies (ICAIT 2021)*, Xi'an. In the book *Advanced Intelligent Technologies for Industry*, 285, 229-238.

#### 研究项目

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| 2020-2022 | 基于在线评论的动态客户偏好建模和产品优化研究/项目主持人/国家自然科学基金青年项目 (71901149)                       |
| 2023-2024 | 基于混沌优化的自适应神经模糊推理系统方法建立动态消费者偏好模型-具有可解释的非线性/项目主持人/澳门科技大学研究基金(FRG-23-045-MSB) |
| 2025-2027 | 基于可解释的人工智能建模算法与时间序列数据构建动态客户满意度模型的研究/项目主持人/澳门科学技术发展基金 (0043/2024/ITP2)      |