姜慧敏

職稱： 助理教授
學院： 商學院
電郵： hmjiang@must.edu.mo
電話： (853) 8897-2364

教育背景

2010-2014　博士：香港理工大學，工業與系統工程
2006-2009　碩士：南開大學，系統工程
2002-2006　學士：湘潭大學，自動化

工作經驗

2020-至今　　助理教授/澳門科技大學
2018-2020　　助理教授/深圳大學
2018　　　　研究員/香港理工大學
2017-2018　　博士後/香港理工大學
2013-2017　　副研究員/香港理工大學

教學活動

應用統計；商務統計；電子商務；資訊技術服務管理

研究領域

智能建模與優化，人工智能，新產品設計與開發，數據挖掘，消費者動態偏好分析

學術成果

期刊論文

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

書籍章節

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.

學術會議論文

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.

其他專業資格 / 獎項 / 活動

研究項目

2020-2022	基於在線評論的動態客戶偏好建模和產品優化研究/項目主持人/國家自然科學基金青年項目（71901149）
2023-2024	基於混沌優化的自適應神經模糊推理系統方法建立動態消費者偏好模型-具有可解釋的非線性/項目主持人/澳門科技大學研究基金(FRG-23-045-MSB)