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

2020-至今	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

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

智能建模与优化，人工智能，新产品设计与开发，数据挖掘，消费者动态偏好分析

学术成果

期刊论文

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.

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 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.

其他专业资格 / 奖项 / 活动

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)