Xiaoyan QIAN

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Education Background

- 2013-present: Zhejiang Science and Technology University (ZSTU), Department of Mechanical Engineering & Automation
  Master of Industrial Engineering (expected in June 2016)
  Overall GPA: 4.29/5 (92.90/100) Ranking: 1/125

- 2009-2013: Zhejiang University of Technology (ZUT), Department of Mechanical Engineering
  Bachelor of Industrial Engineering
  Overall GPA: 3.73/5 (87.30/100) Ranking: 1/35

Research interests

Modeling, Simulation and Optimization on System Layout Planning
System Decision-Making Analysis and Game Theory
Product Lifecycle Management
Carbon Footprint Management

Selected Publications

- Xiaoyan QIAN, Renwang LI, *etc*."Modeling Carbon Footprint of Tobacco Industry Based on PLC Across the Supply Chain", International Journal of Advanced Manufacturing Technology, 2015. (Under Revision)

- Xinli WU, Renwang LI and Xiaoyan QIAN. "The Optimization Method Research Based on Analytic Hierarchy Process Method and the Dynamic Programming of Mass Customization Enterprise Value Network", International Journal of Advanced Manufacturing Technology, 2015. (Under Revision)

- Ning LI and Xiaoyan QIAN. "Simulation and Optimization of Assembly Workshop Production Logistics Based on ED", Modular Machine Tool & Automatic Manufacturing Technique, (4): 154-160, 2014.

Research Experience

- **Natural Science Foundation of China program (from Jan. 2015 to now, Supervisor: Prof. Li Renwang)**

  "Product Lifecycle-oriented Modeling and its Application for Carbon Footprint in Supply-Chain Environment" (No. 51475434)

  - ➢ Overall aim: Build and apply a carbon footprint analysis body in order to mitigate the hothouse effects
  - ➢ My part: Construct models for calculating carbon footprint, simulate models into Tobacco Industry and constantly optimize these models
  - ➢ Result: Be able to locate where carbon footprint was excessively emitting

- **The System Layout Planning Program (from Sept. 2012 to June 2013, Supervisor: Prof. Luo Guoxun)**

  - ➢ Overall aim: Optimize technological process (Low-input and high-output)
  - ➢ My part: Establish original and optimized models in Enterprise Dynamics
  - ➢ Result: The cross of logistics were relieved

- **Be a member of a System Decision-Making Analysis team (from Mar.2012 to July 2012, Supervisor: Prof. Luo Guoxun)**

  This team divided students into several groups and my group was distributed to research and analyze the case of Cuban Missile Crisis using Conflict Analysis theory.

  This team divided students into several groups and my group was distributed to research and apply Conflict Analysis into the case of the Cuban Missile Crisis.

  - ➢ Overall aim: Arouse students' motivation to acquire knowledge about System Engineering and learn to apply it in practice
  - ➢ My part: the modeling including five main elements (Time, Player, Options, Outcomes and Preference Vector)

- **The Development of Managerial System of Research Results Program (from Oct. 2013 to June 2014, Supervisor: Prof. Li Renwang)**

  - ➢ Overall aim: Explore a Management Information System for the research results
  - ➢ My part: the prospects interface design for the only Papers part
  - ➢ Result: Applied the MIS into a enterprise successfully

- **Natural Science Foundation of Zhejiang Province program (from June. 2015 to now, Supervisor: Lecture Song Jinyu) (under revision)**

  "Ontology-Driven Data Extraction and Calculation Method of Product Carbon Footprint based on Life Cycle" (under revision)

  - ➢ Overall aim: Develop a ontology-driven system for carbon footprint data extraction, model, semantic, mutual operation in the production life cycle
  - ➢ My part: Construct a calculation and evaluation framework of carbon footprint by using PAS 2050 and IS0 14067
  - ➢ Result: Be able to evaluate the low-carbon supply chain management effectively

Teaching Assistant Experience

TA for the courses "Supply Chain Management" and "Operation Research" during 2014 and 2015

Professional skill

Simulation Software (FlexSim and Enterprise Dynamics)

Auto CAD, MATLAB

English Proficiency

IELTS (Academic): 6.0/9 (Listening5.5 Reading 6.5 Writing 6.0 Speaking5.5)

GRE: 307/340 (Verbal140 Quantative167 Writing 2.5)

Honors and Rewards

- Third Prize awarded for Provincial Undergraduate Mathematical Competition in Dec.2011
- Excellent Student Leader, May.2013
- Second Prize of Excellent Postgraduate Scholarship in Sept.2014
- National Encouragement Scholarships and Excellent Undergraduate Scholarships between 2010 and 2013