

Education Background

- ◆ 2013-2016: M.Eng. in Industrial Engineering
 - Zhejiang Science and Technology University (ZSTU)
 - Overall GPA: 92.90/100 Ranking: 1/125
- ◆ 2009-2013: B.Eng. in Industrial Engineering
 - Zhejiang University of Technology (ZUT)
 - Overall GPA: 87.30/100 Ranking: 1/135

Research Interests

- ◆ Operations Research
- ◆ Data-Driven Decision-Making under Uncertainty
- ◆ Production and Logistic Optimization
- ◆ Statistical Analysis

Selected Publications

- ◆ Xiaoyan QIAN, Renwang LI, *et al.* "Modeling Carbon Footprint of Tobacco Industry Based on PLC Across the Supply Chain", *International Journal of Advanced Manufacturing Technology*, **2016**. (Under Revision)
- ◆ Wu X, Li R, Qian X, et al. The value network optimization research based on the Analytic Hierarchy Process method and the dynamic programming of cloud manufacturing[J]. *The International Journal of Advanced Manufacturing Technology*, 2015: 1-9.
- ◆ 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

- ◆ **The Smart Spare Part Inventory Management (Dec. 2016 - present)**
 - School of Electrical & Electronic Engineering, NTU
 - Meet the production goals of furnaces in semiconductor wafer fabrication facilities
 - Develop the computer-based scheduling algorithms with full consideration of the process constraints
 - Replace the prior labor-extensive experience-dependent scheduling activities
 - Build GUI for the whole system implementation with Asp.net

◆ **NTU Forecast System (Aug. 2016 - present)**

School of Electrical & Electronic Engineering, NTU

- Reduce unanticipated machine failure or breakdowns
- Develop preventive maintenances (PMs) are performed on the equipments in the fab
- Build GUI for the whole system implementation with Asp.net

◆ **Product Lifecycle-oriented Modeling and its Application for Carbon Footprint in Supply-Chain Environment (Jan. 2015 – May. 2016)**

Natural Science Foundation of China

- Build and apply a carbon footprint analysis body in order to mitigate the green-house effects
- Construct models for calculating carbon footprint, simulate models into Tobacco Industry and constantly optimize these models
- Optimal models could be able to locate where carbon footprint was excessively emitting

◆ **Ontology-Driven Data Extraction and Calculation Method of Product Carbon Footprint based on Life Cycle (June 2015 - present)**

Natural Science Foundation of Zhejiang Province

- Develop an ontology-driven system for carbon footprint data extraction, model, semantic, mutual operation in the production life cycle
- Construct a calculation and evaluation framework of carbon footprint by using PAS 2050 and ISO14067
- Models could be able to evaluate the low-carbon supply chain management effectively

◆ **The System Layout Planning Program (Sept. 2012 - June 2013)**

- Optimize technological process (Low-input and high-output)
- Established original and optimized models in Enterprise Dynamics

Selected Honors and Awards

- ◆ Second Prize Scholarship for Excellent Postgraduate Students, 2014
- ◆ Excellent Student Leader, ZUT, 2013
- ◆ Second Prize for Provincial Undergraduate Mathematical Competition, 2011
- ◆ National Encouragement Scholarships and Excellent Undergraduate Scholarships, 4 times, 2010-2013

Professional skill

- ◆ Software: Asp.net, MATLAB, Enterprise Dynamics, Auto CAD, FlexSim, Visual Studio
- ◆ Coding: C#, Python, html, CSS, JS
- ◆ Language: Chinese (native), English (IELTS: 6.0/9.0)

Work Experience

- ◆ Research Assistant in school of EEE at NTU, 2016.8- so far
- ◆ Teaching Assistant for the graduate course “Operation Research”, 2014-2015