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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 Optimization
- ◆ Data-Driven Decision-Making under Uncertainty
- Data Analytics
- ◆ Production and Logistic Optimization

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 Feb. 2017)
 - 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 – Jan. 2017)

School of Electrical & Electronic Engineering, NTU

- > Reduce unanticipated machine failure or breakdowns
- > Develop preventive maintenances (PMs) are performed on the equipments in the fab
- > Data collection, process, analytics and forecast
- ➤ 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. 2014 – May. 2016)

Natural Science Foundation of China, ZSTU

- Build and apply a carbon footprint analysis body in order to mitigate the greenhouse 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

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

School of Mechanical Engineering, ZUT

- > Optimize technological process (Low-input and high-output)
- Established models for original and optimized plans based on Enterprise Dynamics
- > Data Collection, process, analytics and forecast
- > 3-D simulation analysis and optimization

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: Visual Studio, MATLAB, Enterprise Dynamics, Auto CAD, FlexSim,
- ◆ 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- 2017. 3
- ◆ Teaching Assistant for the graduate course "Operation Research", 2014-2015