

Xiaofeng Hu

Curriculum Vitae



Dr Xiaofeng Hu

School of Mechanical Engineering

Shanghai Jiao Tong University

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October 2009

Xiaofeng Hu

Name: Xiaofeng Hu

Birth Date: October 24th, 1977

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Introduction

I work in the Computer Integrated Manufacturing Research Institute, Shanghai Jiao Tong University. I graduated with a Ph.D degree from Shanghai Jiao Tong University in 2005. My research interests are the simulation, planning, scheduling and management of manufacturing systems (including assembly lines, project shops, hybrid flowshops, re-entrant manufacturing lines and hospitals). Today I am conducting several research projects funded by the Chinese government, Shanghai city, and a number of private enterprises. In recent years, I have published more than 10 papers in the European Journal of Operational Research, the International Journal of Production Research, the Asia-Pacific Journal of Operational Research, the Journal of Ship Production, the International Journal of Advanced Manufacturing Technology and similar publications.

Education

Shanghai Jiao Tong University

Degree: Ph.D, June 2005

Subject: Mechanical Engineering Design & Automation

Xi'an University of Architecture and Technology

Degree: Master of Engineering, March 2002

Subject: Mechanical Engineering Design & Theory

Xi'an University of Architecture and Technology

Degree: Bachelor of Engineering, July 1999

Major: Mechanical Engineering Design & Manufacture

Ongoing Projects

- [1] Research & application of balancing algorithms for a large-scale two-sided assembly line, supported by Research Fund for Doctoral Program of Higher Education (No. 200802481112)
- [2] Research on multi-objective assembly line balancing algorithms for a large-scale two-sided assembly line, supported by Shanghai Municipal Natural Science Foundation (09ZR1414100)
- [3] Research on polymorphic modeling methods for a complex manufacturing system, supported by National 863 Program (No. 2007AA04Z109).

Completed Projects

- [1] Research on hierarchical adaptive control for a re-entrant manufacturing system, supported by National Natural Science Foundation of China (No. 050575137)
 - [2] Research on manufacturing logistic management of shipyard enterprises, supported by Shanghai Municipal Science & Technology Commission (No.04DZ11004)
 - [3] Key technology research & application demonstration of production lines for equipment manufacturing enterprises, supported by Shanghai Municipal Science & Technology Commission (No. 03111005)
 - [4] Simulation and Optimization of TFT-LCD Re-entrant manufacturing system, supported by Shiyuan Technology, Engineering and Construction Co. Ltd
 - [5] Study on examination scheduling and service process reengineering for out-patient, supported by Center of Shanghai Shengkang Hospital Development.
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Published & Accepted Papers

- [1] *Hu Xiaofeng*, Wu Erfei, Jin Ye, A station-oriented enumerative algorithm for two-sided assembly line balancing, *European Journal of Operational Research*, 2008, 186(11):435-440.
- [2] *Hu Xiaofeng*, Bao Jinsong, Wu Er-fei, Jin Ye, A branch and bound algorithm to minimize the line length of a two-sided assembly line, *European Journal of Operational Research*. (Revision)

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- [3] **Hu Xiaofeng**, Bao Jinsong, Jin Ye, Minimizing makespan on parallel machines with precedence constraints and machine eligibility restrictions, International Journal of production Research. (Accepted) DOI: 10.1080/00207540802620779
- [4] **Hu Xiaofeng**, Bao Jingsong, Jin Ye, A tabu search algorithm for a pipe-processing flowshop scheduling problem minimizing total tardiness in a shipyard, Asia-Pacific Journal of Operational Research. (Accepted)
- [5] **Hu Xiaofeng**, Bao Jinsong, Jin Ye, On a parallel machine scheduling problem with precedence constraints and machine number restrictions, Proceedings of The 2008 International Conference on Embedded Systems and Applications, Las Vegas Nevada, USA, 265-267.
- [6] **Hu Xiaofeng**, Zhou Yong, et al, Automatic call number localization in color book images, Journal of Electronic Imaging, 2005,15(4):043017-1~6.
- [7] **Hu Xiaofeng**, Ye Qingtai, Adaptive thresholding for degraded call number images, IEICE Transaction on Information and Systems, 2005, E88-D(1):162-163.
- [8] Bao, Jingsong , **Hu, Xiaofeng**, Jin, Ye, A Heuristic Method to Schedule Pipe-Processing Flowshop in a Shipyard, Journal of Ship Production, 2007, 23(4):210-214.
- [9] Bao Jinsong, **Hu Xiaofeng**, Jin Ye, A genetic algorithm for minimizing the makespan of block erection in shipbuilding, Journal of Manufacturing Technology Management, 2009, 20(4):500-512.

Developing Tools

Software: MATLAB, Visual C++, Visual Basic, and Plant Simulation

Database: SQL Server