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Academic Qualification:

Ph.D. in Industry engineering, Guangdong University of Technology, 2010

Master in Mechatronics engineering, Shenyang Institute of Automation, Chinese Academy of Sciences, 2000

Bachelor in Mechanical engineering, Northeastern University, 1995

Teaching Area

Industry Engineering, Operations Research, Production Planning and Control, Information system, E-Commerce

Research Area

Production planning and Control, Discrete event system, Petri net

Working Experience

Visiting Associate Professor, Faculty of Information Technology, MUST, 2013 - present

Associate professor, Department of Industrial Engineering, Guangdong University of Technology, 2007 - 2013

Lecturer, Department of Industrial Engineering, Guangdong University of Technology, 2003 - 2007

Visiting scholar, Faculty of Industry Engineering, University of Technology of Troyes, France, 2005-2006

Assistant professor, Department of Industrial Engineering, Guangdong University of technology, 2000-2003

Assistant engineer, Shenyang Transformer Co.,Ltd, 1996-2001

Academic Publication

N. Q. Wu, L. P. Bai, M. C. Zhou, F. Chu, and S. Mammar, A novel approach to optimization of refining schedules for crude oil operations in refinery, IEEE Transactions on Systems, Man, & Cybernetics, Part C, vol. 42, no. 6, 1042-1053, 2012.

Y. Qiao, N. Q. Wu, Q. H. Zhu, and L. P. Bai, Cycle Time Analysis of Dual-Arm Cluster Tools for Wafer Fabrication Processes with Multiple Wafer Revisiting Times, Computers & Operations Research, accepted.

L. P. Bai and N. Q. Wu, Short-term scheduling of crude oil operations and its complexity. Industrial engineering Journal, vol. 14, no. 1, 67-71, 2011.

N. Q. Wu, L. P. Bai, and C. B. Chu, Modeling and conflict detection of crude-oil operations for refinery process based on controlled-colored-timed Petri net, IEEE Transactions on Systems, Man, & Cybernetics, Part C, vol. 37, no. 4, 461-472, 2007.

L. P. Bai and N. Q. Wu, Performance analysis of cluster tool with revisiting in semiconductor manufacturing. Computer Integrated Manufacturing Systems, vol.11, no.3, 320-325, 2005.

L. P. Bai and N. Q. Wu, Performance analysis of cluster tool with Non-Revisiting in semiconductor manufacturing. Systems engineering theory and practice. vol.25, no.6, 11-18, 2005

N. Q. Wu and L. P. Bai, A review of scheduling optimization in petroleum refining industry. Computer Integrated Manufacturing Systems, vol.11, no.1, 90-96, 2005.

N.Q. Wu, L. P. Bai, and C. B. Chu, Hybrid Petri net modeling for refinery process, 2004 IEEE International Conference on Systems, Man and Cybernetics, 1734-1739, 2004

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