

## IMS Researcher Profile

**Institution: UM**

Name: Lin Li

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Expertise: Decision support tool, remaining useful life prediction, manufacturing systems research, operation research

Current Research Activities:

- Bottleneck detection in complex manufacturing systems
- Buffer management based on risk analysis
- Feature selection using ANN
- Two-zone PHM for RUL prediction
- ANN based RUL prediction
- Cost model for joint production and maintenance
- Degradation modeling by Markov chain

Dissertation/Thesis Topics: Short-term supervisory control of manufacturing systems

Previous Background:

- Ph.D. (2007) Mechanical Engineering, University of Michigan, Ann Arbor, MI, USA
- M.S.E. (2005) Industrial and Operations Engineering, University of Michigan, Ann Arbor, MI, USA
- M.S.E. (2003) Mechanical Engineering, University of Michigan, Ann Arbor, MI, USA
- B.A.(2001) Business Administration, Shanghai Jiao Tong University, Shanghai, China
- B.S. (2001) Mechanical Engineering, Shanghai Jiao Tong University, Shanghai, China

Publications:

1. **L. Li**, Q. Chang, J. Ni, G. Xiao, and S. Biller, "Bottleneck Detection of Manufacturing Systems Using Data Driven Method", Proceedings of the 2007 *IEEE International Symposium on Assembly and Manufacturing (IEEE ISAM)*, Ann Arbor, Michigan, USA, July 22-25, 2007, pp. 76-81.
2. **L. Li**, D. Djurdjanovic and J. Ni, "Maintenance Task Prioritization Using Data Driven Bottleneck Detection and Maintenance Opportunity Windows", Proceedings of the 2007 *ASME Manufacturing Science and Engineering Conference (MSEC)*, October 15-18, 2007, Atlanta, Georgia, USA, paper number MSEC2007-31150.
3. **L. Li**, Q. Chang, and J. Ni, "Data Driven Bottleneck Detection of Manufacturing Systems", accepted to appear in *International Journal of Production Research*, paper no TPRS-2007-IJPR-0657.R2, 2008.