

## **Wei Li**

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### **(a) Professional Preparation**

|                             |                |                        |               |
|-----------------------------|----------------|------------------------|---------------|
| Tsinghua University         | Beijing, China | Mechanical Engineering | B.Eng., 1997  |
| University of Calgary       | Calgary, AB    | Manufacturing Systems  | M.Sc., 2006   |
| University of Calgary       | Calgary, AB    | Industrial Engineering | Ph.D., 2011   |
| Haskayne School of Business | Calgary, AB    | Information Systems    | Postdoc, 2013 |

### **(b) Appointments**

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| Assistant Professor, Mechanical Engineering, University of Kentucky, Lexington, KY   | 2013-Present |
| Postdoctoral Fellow, Haskayne School of Business, University of Calgary, Calgary, AB | 2011-2013    |
| Mechanical Engineer, China National Petroleum Corporation (CNPC), Beijing, China     | 2000-2003    |
| Computer System Engineer, Advanced Business Services Co. Ltd., Beijing China         | 1997-2000    |

### **(c) Products**

#### **(i) Most Related Products**

- Ye, H.H., W. Li, and E.M. Miao. 2016. An effective heuristic for no-wait flow shop production to minimize makespan. *Journal of Manufacturing Systems*, DOI: 10.1016/j.jmsy2016.05.001.
- Freiheit, T., and W. Li. 2016. The effect of work content imbalance and its interaction with scheduling method on sequential line performance. *International Journal of Production Research*. DOI: 10.1080/00207543.2016.1194536.
- Li, W., and T. Freiheit. 2015. An effective heuristic for adaptive control of job sequences subject to variation in processing times. *International Journal of Production Research*, 54 (12), 3491-3507.
- Li, W., V.L. Mitchell, B.R. Nault, and D. Brind. 2015. Operating room scheduling and adaptive control using a priority first fit decreasing heuristic. *Engineering Management Research*, 4 (2), 46-53.
- Li, W., V.L. Mitchell, and B.R. Nault. 2014. Inconsistent objectives in operating room scheduling. *Proceedings of the 2014 Industrial and Systems Engineering Research Conference*. May 31-June 3, 2014, Montreal, QC, Canada.

#### **(ii) Other Significant Products**

- Li, W., T. Freiheit, and E.M. Miao, 2016. A lever concept integrated with simple rules for flow shop scheduling. *International Journal of Production Research*. DOI: 10.1080/00207543.2016.1246762.
- Abedini, A., H.H. Ye, and W. Li, 2016. Operating room planning under surgery type and priority constraints. *Procedia Manufacturing*, 5, 15-25.
- Luo, X.G., W. Li, C.K. Kwong, and Y. Cao. 2015. Optimisation of product family design with consideration of supply risk and discount. *Research in Engineering Design*, DOI: 10.1007/s00163-015-0204-1.
- Li, W., B.R. Nault, D. Xue, and Y.L. Tu. 2011. An efficient heuristic for adaptive production scheduling and control in one-of-a-kind production. *Computers & Operations Research*, 38 (1), 267-276.
- Li, W., X.G. Luo, D. Xue, and Y.L. Tu. 2011. A heuristic for adaptive production scheduling and control in flow shop production. *International Journal of Production Research*, 49 (11), 3151-3170.

**(d) Synergistic Activities**

Finished eLearning Innovation Initiative (eLII) for faculty teaching skill development from May 1, 2015 to April 30, 2016.

Developed the instructional materials and simulation tools for teaching a graduate course MFS/ME/EE 605 “Modeling, Simulation and Control for Manufacturing”, which is taught both on campus at University of Kentucky (UKY), and online since Fall Semester 2016.

Developed heuristics for flow shop scheduling, which can be used for adaptive control dealing with dynamic disturbances, such as job insertion/cancellation, machine breakdown/operator absence, variation in processing times.

A member of INFORMS, SME and Kentucky Society of Professional Engineers (KSPE), also an officer of Bluegrass Chapter in KSPE.

A reviewer of International Journal of Production Research, Management Information Systems Quarterly, Computers & Operations Research, International Journal of Advanced Manufacturing Technology.