Weiwei Fan

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EMPLOYMENT

Tongji University, Shanghai, China
Assistant Professor, Advanced Institute of Business   Sep. 2018 - present

University of Science and Technology of China, Hefei, China
Assistant Professor, School of Management   Sep. 2015 - Aug. 2018

EDUCATION

The Hong Kong University of Science and Technology, Hong Kong
Ph.D., Department of Industrial Engineering and Logistics Management   Aug. 2015

University of Science and Technology of China, Hefei, China
B.S., Department of Mathematics   Jun. 2011

RESEARCH INTERESTS

Simulation Optimization, Robust Optimization and their applications in Healthcare Management

RESEARCH PAPERS

Weiwei Fan, L. Jeff Hong and Barry L. Nelson. (2016) Indifference-Zone-Free Selection of the Best. *Operations Research* 64(6): 1499-1514.

Weiwei Fan, L. Jeff Hong and Xiaowei Zhang. (2018) Distributionally Robust Selection of the Best. Under minor revision at *Management Science*.

Weiwei Fan, L. Jeff Hong, Xiaowei Zhang and Ran Chen. Efficiency Enhancing in Robust Selection of the Best. *Working paper.*

Weiwei Fan and Jun Luo. Constrained Selection of the Best. *Working paper.*

Weiwei Fan and Jun Luo. Indifference-Zone-Free Selection of the Best with Finite-Sample Statistical Validity. *Working paper.*

REFEREED CONFERENCE PROCEEDINGS

Weiwei Fan and L. Jeff Hong. (2014) A new frequentist selection-of-the-best procedure without indifference zone. *Proceedings of the 2014 Winter Simulation Conference*, 3737-3748.

Weiwei Fan and L. Jeff Hong. (2013) Robust selection of the best. *Proceedings of the 2013 Winter Simulation Conference*, 868-876.

RESEARCH GRANT

Principal Investigator, NSFC-Project 71701196, "Data Driven Research on Surgery Scheduling via Simulation Optimization", 2018-2020.

PRESENTATIONS

"Empirical estimation of tail behaviors"
- Third POMS-HK International Conference, Hong Kong, January 2012

"Robust selection of the best"
- Fourth POMS-HK International Conference, Hong Kong, January 2013
- The 2013 Winter Simulation Conference, Washington D.C., December 2013
- The INFORMS International Conference, Hawaii, June 2016

"Selection of the best without indifference zone"
- INFORMS Annual Meeting, San Francisco, CA, November 2014
- The 2014 Winter Simulation Conference, Savannah, GA, December 2014

ACADEMIC EXPERIENCE

The City University of Hong Kong, Hong Kong
Visiting Fellow, Department of Management Science   May 2017 – June 2017

The Hong Kong University of Science and Technology, Hong Kong
Visiting Fellow, Department of IELM   Oct. 2015 – Dec. 2015

The Hong Kong University of Science and Technology, Hong Kong
Research Assistant, Department of IELM   Sep. 2011 – Aug. 2015

George Mason University, VA, USA
Visiting Fellow, Department of Systems Engineering and Operation Research   Nov. 2014

TEACHING EXPERIENCE

Teaching Assistant at Department of IELM, HKUST

- Undergraduate Courses:
    - IELM3300   Industrial Data Systems, Fall 2011
    - IELM4130   System Simulation, Spring 2012
    - IELM2010   Industrial Engineering and Modern Logistics, Spring 2013
    - IELM4100   Integrated Production Systems, Fall 2014
- Postgraduate Courses:
    - IELM5270   Engineering Statistics, Fall 2012, 2013
    - IELM6100A Design and Analysis of Simulation Experiments, Fall 2012
    - EEMT5120   Operations/Production Management, Fall 2013
    - EEMT5500   Engineering Statistics and Simulation, Spring 2014