

**SCHOOL OF INDUSTRIAL ENGINEERING
SEMINAR**

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Risk-adjusted Performance Monitoring in Complex Systems

Abstract

The performance of a system is generally influenced by many factors, among which some are uncontrollable factors, also called risk factors. The impact of these factors must be taken into account when we examine a system for performance improvement. On the other hand, with the rapid development of cyber infrastructure and information technology, abundant data on both performance and influential factors are available in complex systems. The data rich environment enables us to develop innovative methodologies to account for risk factors in studying system performance. This talk presents a methodology for risk-adjusted performance monitoring in complex systems, particularly healthcare delivery systems.

Biography

Li Zeng is a Ph.D. student in the Department of Industrial and Systems Engineering at University of Wisconsin-Madison. She received her B.S. and M.S. degrees in Optical Engineering from Tsinghua University, Beijing, China, and M.S. degree in Statistics from UW-Madison. Her research interests are quality measure and control in healthcare, and statistical modeling and analysis of complex systems.

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