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Associate Professor of Decision Sciences
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CONTACT INFORMATION

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EDUCATION

A.S.A.   Society of Actuaries, 2009
Ph.D.   Yale University, 1991
M.Phil., M.A.   Yale University, 1989
M.Sc.   University of Saskatchewan, 1987
B.Sc. (Hons)   University of Saskatchewan, 1985

PROFESSIONAL EXPERIENCE

Associate Professor   Information and Decision Sciences Department, University of Illinois at Chicago, 1999-Present

Assistant Professor   Information and Decision Sciences Department, University of Illinois at Chicago, 1991-1998

PUBLICATIONS:

Refereed Journal Articles

"Performance Analysis Of Mobile Communication Networks," to appear in **International Journal of Information and Decision Sciences.**

"Analysis Of State Dependent Vacation Queues With Threshold Gated Service Policy.," **International Journal of Opearations Research and Information Systems,** Vol. 1, No. 2, 32-49, 2010.

"Supply Chain Risk Management", **International Journal of Information and Decision Sciences,** Vol. 1, 98-114, 2008.

"The effect of workers with different capabilities on customer delay", **Computer and Operations Research**, Vol. 31, 359-381, 2004.

"Analysis of random polling system with infinite coupled servers and correlated input process," **Computer and Operations Research**, Vol. 30, 2003-2020, 2003.

``Analysis of infinite servers polling system with correlated input process and state dependent vacations," **European Journal of Operational Research**, Vol. 115, 392-412, 1999.

``Models for design and control of single server polling computer and communication systems," **Operations Research,** Vol. 46, 515-531, 1998.

``A closed form solution for the asymmetric random polling system with correlated Levy input process," **Mathematics of Operations Research**, Vol. 22, 432-457, 1997.

``A simple approach for analyzing feedback vacation queues with Levy input process," **European Journal of Operational Research**, Vol. 96, 299-316, 1997.

``Exact analysis of asymmetric random polling system with single buffers and correlated input process," with Jan Sunjaya, **Queueing Systems**, Vol. 23, 131-156, 1996.

``Managing uncertainty in a serial production line," with Eric V. Denardo, **Operations Research**, Vol. 44, 382-392, 1996.

``Pricing and delivery-time performance in a competitive environment," with Lode Li, **Management Science**, Vol. 40, 633-646, 1994.

``Stability analysis of cyclical schedule and linear lot sizing rule for a production system," **International Journal of System Science**, Vol. 25, 2361-2376, 1994.

``Order selection on a single machine with high set-up costs," with Brenda Dietrich and Jon Lee, **Annals of Operations Research**, Vol. 43, 379-398, 1993.

``A spectral method for clique faces," with Jon Lee, **Linear Algebra and Its Applications**, 159, 11-41, 1991.

``Inequalities for M and N_0-matrices," **Linear and Multilinear Algebra**, 29, 149-154, 1991.

``How bad can it get? Bounding worst case endemic heterogeneous mixing models of HIV/AIDS,'' with Edward Kaplan, **Mathematical Biosciences**, 99, 157-180, 1990.

``On the sum of two N_0-matrices,'' **Linear and Multilinear Algebra**, 26, 215-221, 1990.

``The spectrum of a Coxeter transformation, affine Coxeter transformations and the defect map,'' with S. Berman and R. Moody, **Journal of Algebra** 121, 339-357, 1989.

``Some remarks on Cartan matrices 2,'' **Algebra, Groups and Geometries** 6, 37-48, 1989.

``Some remarks on Cartan matrices,'' **Algebra, Groups and Geometries** 4, 439-450, 1987.

SELECTED REFEREED CONFERENCE PROCEEDINGS

"Managing Supply Chain Disruption Risks," **Proceedings of the 11th International DSI and the 16th APDSI Conference**, Taipei, Taiwan, July, 2011.

"Supply Chain Risk Management" **Proceedings of the Eleventh Annual Asia-Pacific Risk and Insurance Association Conference**, Taipei, Taiwan, July, 2007.

"A closed form solution for the asymmetric random polling system with correlated Levy input process," **Proceedings of the Third Hawaii International Conference on Statistics and Related Topics,** Honolulu, Hawaii, June, 2004.

"The asymmetric random polling system with customers routing and correlated Levy input process: a closed form solution," **Proceedings of the First Hawaii International Conference on Statistics and Related Topics,** Honolulu, Hawaii, June, 2002.

"Managing Internet Access Services: Competition, Market Share and Profitability," **Proceedings of the 2000 Information Resources Management Association International Conference**, Anchorage, Alaska, USA, may, 2000.

SELECTED INVITED PRESENTATION

Sung Kyun Kwan University, Korea, Department of Actuarial Science, Fundamental of Actuarial Practice 2, June 2009

Sung Kyun Kwan University, Korea, Department of Mathematics, Supply Chain Risk Management, June 2009

Sung Kyun Kwan University, Korea, Department of Actuarial Science, Fundamental of Actuarial Practice 3, June 2011

TECHNICAL REPORTS

"Managing Supply Chain Disruption Risks," preprint.

"Supply Chain Risk Management 2: The Impact Of Flexibility," preprint.

"Performance analysis of single buffer systems with state dependent vacations and correlated input process under four different service disciplines," preprint.

"Models for design and control of single buffers computer and communication systems," preprint.

EDITORIAL BOARD MEMBERSHIP

International Journal of Information Systems in the Service Sector
International Journal of Data Analysis Techniques and Strategies
International Journal of Information & Decision Sciences

RESEARCH INTEREST

Risk Management,
Actuarial Science,
Production and Operations Management,
Performance evaluation of computer and communication systems

RESEARCH IN PROGRESS

Models For Managing Supply Chain Disruption Risks
A Simple Approach For Evaluating The Impact of Enterprise Risk Management
Service operations management

GRANTS

Institutional Grant, Society of Actuaries, $5,000. (2009)
Research Grant (Co PI), CBA, (2011)

TEACHING:

Courses Taught

Risk Management (undergraduate,MBA)
Production and Operations Management (MBA)
Operations Management II (undergraduate)
Operations Research I, II (undergraduate)
Operations Strategy (undergraduate)
Theory of Interest (undergraduate)
Introduction to Insurance (undergraduate)
Actuarial Science (undergraduate)
Risk Theory (undergraduate)
Inventory Management (MBA)
Business Statistics (MBA)

Ph.D. Dissertation Committee

Jan Sunjaya (chair): Management Information Systems, 1997.
Manoj Chandra (member): Management Information Systems, 1998.
Ronald Vhymeister (member): Management Information Systems, 2000**.**
Doug Lundquist (member): Management Information Systems, 2011.

ACADEMIC ACTIVITIES

2008-present, Member, College of Business Administration, MBA Program Committee
2001-present, Member, Operations Management/Operations Research Committee
2006-2007, Member, Department Head Search Committee
1997-1999, Director of Graduate Studies
1997-1999, Member, IDS Department's Advisory Committee
1997-1999, Member, College of Business Administration, Graduate Academic Program Committee
1997-1999, Member, College of Business Administration, PhD Program Committee
1997-1999, Member, College of Business Administration, Coordinating Committee
1997-1999, Member, IDS Department's Undergraduate Program Committee
1992-1995 Organized the Information and Decision Sciences Seminar
1991-1999, Member, Operations Management/Operations Research Committee
1995,1996,1998; Chairman, Trace-Derrick Award Committee
1994, Member, Trace-Derrick Award Committee