

## **Shanling Li**

### *Curriculum Vitae*

Professor of Operations Management/Management Science  
Desautels Faculty of Management, McGill University

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Director, Management Science Research Center (MSRC)

1001 Sherbrooke St. (W), Montreal

Quebec, H3A 1G5, Canada

URL: <http://web.management.mcgill.ca/shanling.li/>

Office Phone: (514) 398-2407

Fax: (514) 398-3876

E-mail: [shanling.li@mcgill.ca](mailto:shanling.li@mcgill.ca)

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### **Current Research Interests**

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Financial and Operational Hedging in Outsourcing/Offshoring; Capacity Investment Strategy and Planning; Health Care; Performance Evaluation; Dynamic Pricing; Data Envelopment Analysis

### **Current Position**

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*Professor:* Desautels Faculty of Management, McGill University, March 2008 – present

*Associate Dean of Research and International Relations:* Sept. Desautels Faculty of Management, McGill University, Sept. 2009 - present

*Director, Management Science Research Center,* Desautels Faculty of Management, McGill University, Sept. 1999 – present

### **Educational Background**

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*Ph.D. in Operations Management / Operations Research* (Sept. 1985 – June 1991)

University of Texas at Austin, Austin, USA

Dissertation: Strategic Investment Planning with Technology Choice in Manufacturing Systems (Supervisors: Prof. W.W. Cooper and D. Tirupati)

*M.S. in Industrial Management* (May 1983 - December 1985)

Georgia Institute of Technology, Atlanta, USA

### **Editorial Position**

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*Guest Editors,* 2009, Special Issue of International Journal of Production Economics:

Interdisciplinary Research in Operations Management

*Editorial Review Board,* Production and Operations Management (POM), Department of Technology Management, 2003 – present

*Associate Editor*, IEEE Transactions on Engineering Management, Oct. 2001 – present  
*Associate Editor*, International Journal of Information Technology and Decision Making, 2001 – present  
*Associate Editor*, International Journal of Services Technology and Management (ITSTM), 2004 – present  
*Associate Editor*, International Journal of Business and Systems Research (IJBSR), 2006 – present  
*Associate Editor*, Mathematical Problems in Engineering, 2011 -

## **Professional Experience**

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*Faculty of Management, McGill University*

Associate Professor: June 1997 – Feb. 2008

Assistant Professor: June 1991 – May 1997

Area Coordinator, September 2001 – August 2004

Director, MSRC, September 1997 – August 1998

*Xiamen University, Xiamen, China*

EMBA Professor, December 2008

*Jilin University, Changchun, China*

Visiting Professor, September 2004 – present

*Tongji University, Shanghai, China*

EMBA Professor, January 2003 – February 2003

*Dalian University of Technology, Dalian, China*

EMBA Professor, June 2002 – July 2002

*GERAD, University of Montreal, Montreal, Canada*

Member September 1991 - present

*Management Department, University of Texas at Austin, USA*

Instructor/Research Assistant/Teaching Assistant, September 1985- June 1991

*Managerial Engineering Department, Dalian University of Technology, Dalian, China*

Instructor, September 1982 – December 1983

## **Teaching Interests**

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Supply Management, Internet and Manufacturing, Management of Technology, Analysis of Manufacturing System, Production and Operations Management, Total Quality Management, Service Operations Management, Mathematical Modeling and Algorithm, Operations Research.

## Research Grants

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### FQRNT Team Grant

Topic: Approches fondées sur l'optimisation stochastique et les simulations afin d'atténuer le risque lié aux approvisionnements en médicaments contre le cancer

Total Amount: \$102,000..... Period 2012 – 2015

Role: Principal Investigator

### CPRF (Canadian Research Purchasing Foundation)

Topic: Strategic Sourcing Considering Suppliers' Quality

Total Amount: \$10,600            Period 2010 – 2011

Role: Principal Investigator

### CIHR-India Team Grant

Topic Foundational Work for a Brain-to-Society Diagnostic for Prevention of Childhood Obesity and its Chronic Diseases Consequences

Role: Co-Investigator

Total amount: \$499,730            Period: 2011 – 2012

### FQRSC Team Grant

Topic: Comportement du consommateur et dynamique de production, distribution et compétition en alimentation: équilibrer la santé, le plaisir et les affaires, à court et à long terme

Total Amount: \$482,240            Period: 2010 - 2013

Role: Co-Investigator

### NSERC Individual Research (Discovery) Grant:

Topic: Integrated Operational and Financial Hedging in Outsourced and Insourced Supply Chains

Total Amount: \$100,000            Period: 2009 - 2014

### NSERC Individual Research (Discovery) Grant:

Topic: *Strategic Airline Capacity Planning in the Presence of Dynamic Changing Demand and Random Events*

Total Amount: \$130,000            Period: 2004 – 2009

### NSERC Individual Research (Discovery) Grant:

Topic: *Capacity Expansion, Supplier Choice and Productivity Performance in High Tech Industries*

Total Amount: \$125,192            Period: 2000 – 2004

Individual Research (Discovery) Grant from Natural Sciences and Engineering Research Council (NSERC) of Canada

Topic: *Capacity, Technology, Operations and Information Decisions in a Stochastic Environment*

Total Amount: \$108,000                      Period: 1996 – 2000

NSERC Individual Research (Discovery) Grant:

Topic: *Multi-Product Capacity and Technology Planning Problem with Stochastic and Dynamic Demands*

Total Amount: \$92,000                      Period: 1992 – 1996

NSERC Individual Research Equipment Grant”

Topic: *Multi-Product Capacity and Technology Planning Problem with Stochastic and Dynamic Demands*

Total Amount: \$31,048                      Period: 1994 – 1995

FQRSC Individual New Researcher Grant

Topic: *Capacity, Technology, Operations and Information Decisions in a Stochastic Environment*

Total Amount: \$41,100                      Period: 1994 – 1997

Individual Faculty Small Research Grants:

Topic: *Choices of Technology and Distribution Channel*

Total Amount: \$3,000                      Period: 1996

Topic: *Multi-job Cutting Stock Problem with Due Dates and Release Dates*

Total Amount: \$2,500                      Period: 1994

Topic: *Jobs and Tool Sequencing in an Automated Manufacturing Environment*

Total Amount: \$2,500                      Period: 1993

Individual Researcher Grant from National Natural Science Foundation, China:

Topic: *Operations Research / Operations Management Research Projects*

Total Amount: 12,000 (RMB)              Period: 1998

## **Research Contributions**

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### ***Articles Published in Refereed Journals:***

- Gumus, M., S. Li, W. Oh and Ray, S., “Analysis of Online Product Pricing and Shipping Charges”, *Production and Operations Management* (forthcoming).
- Pinsonneault, A., Li. S. and D. Tomiuk, 2010, “Effect of Web Channel and Web Information Richness on Satisfaction and Learning: A Study of Simple and Complex Products”, *Systemes d’Information et Management*, 4(15), pp. 141-16.
- Li, S. and L. Wang, 2010, “Outsourcing and Capacity Planning in an Uncertain Global

Environment”, *European Journal of Operational Research*, 207(1), pp. 131-141.

- Li, S., J. Shang and S. Slaughter, 2010, "Why do Software Firms Fail? Capabilities, Competitive Actions and Survival in the Software Industry from 1995 to 2007", *Information Systems Research*, 21(3), pp. 631-654.
- Li, S., Khodabakhshi, M. and G. R. Jahanshahloo, 2009, "Using DEA to Assess Research Productivity of Canadian Business Schools", *Mathematics Scientific Journal*, 5(1), pp. 83-12.
- Li, S., Murat, E.A. and Huang, W., 2009, "Selection of Contract Suppliers under Price and Demand Uncertainties in a Dynamic Market: A Stochastic Programming Approach", *European Journal of Operational Research*, 198(3), November, pp. 830-847.
- Song, Y., Ray, S. and Li, S., 2008, "Structural Properties of Buy-Back Contracts for Price-Setting", *Manufacturing & Service Operations Management*, 10(1), pp. 1-18.
- Li, S., Khodabakhshi, M. and G. R. Jahanshahloo, 2007, "A Super Efficiency Model for Ranking Efficient Units in Data Envelopment Analysis", *Applied Mathematics and Computation*, 184(2), pp. 638-648.
- Ray, S., Li, S. and Song, Y., 2005, Tailored Supply Chain Decision-Making Under Price-Sensitive Stochastic Demand and Delivery Uncertainty, *Management Science*, 51(12), 1873-1891.
- Shang, J. S., Li, S. and Tadikamalla, P., 2004, "Supply Chain Optimization for High-Tech Products" *International Journal of Production Research*, 42(18), 3823-3849.
- Li, S. and Ouyang, Z., 2004, "Long-Term Trend Analysis of Online Trading--A Stochastic Order Switching Model", *Asia Pacific Management Review (APMR)*, 9(5), 1-30.
- Huang, W., Li, S. and Tirupati, D., 2003, "Selection of Suppliers Considering the Learning Effect and Technology Improvement", *International Journal of Information Technology and Decision Making*, 2(1), 71-92.
- Li, S., Loulou, R. and Rahman, A., 2003, "Technology Progress & Technology Acquisition: A stochastic Programming Approach", *Production and Operations Management*, 12(1), Spring, 102-119.
- Chen, Z. L., Li, S. and D. Tirupati, 2002, "A scenario-based stochastic programming approach for technology and capacity planning", *Computers & Operations Research*, 29(7), pp 781-806, June 2002.
- Cooper, W. W., Deng, H., Gu, B., and Li, S., 2001, Thrall, R. M., "Using DEA to Improve

Congestion in Chinese Industries (1981-1997), *Socio-Economic Planning Sciences*, 35(4), 227-242. (Note: This paper is ranked 17<sup>th</sup> out of the top 25 requested papers with 241 requests (863 requests as the maximum) between April 2002 - April 2004).

- Cooper, W. W., Li, S., Seiford, L. M., Tone, K., Thrall, R. M., Zhu, J., 2001, "Sensitivity and Stability Analysis in DEA: Some Recent Developments", *Journal of Productivity Analysis*, 15(3), 217-246.
- Li, S., Liu, F., Liu, S., and Whitmore, A., 2001, "Comparative Performance of Chinese Commercial Banks: Analysis, Findings and Policy Implications", *Review of Quantitative Finance and Accounting (RQFA)*, 16, 149-170.
- Cooper, W.W., Li, S., Seiford, L.M. and Zhu, J., 2001, "Sensitivity Analysis in DEA", *Journal of Productivity Analysis*, 15(3), pp.217-248.
- Cooper, W.W., Gu, B. and Li S., 2001, "Note: Alternative Treatments of Congestion in DEA – A Response to the Cherchye, Kuosmanen and Post Critique", *European Journal of Operational Research*, 132(1), pp. 81-87.
- Cooper, W.W., Gu, B. and Li S., 2001, "Comparisons and Evaluations of Alternative Approaches to the Treatment of Congestion in DEA", *European Journal of Operational Research*, 132, 62-74.
- Huang, W., Li, S. and Tang, G., 2001, "A Single Machine Scheduling Problem to Minimize Lateness Cost and Crashing Cost", *International Journal of Operations and Quantitative Management*, 17(2), [pages?].
- Huang, W. and Li, S., 1998, "A Two-Stage Hybrid Flowshop with Uniform Machines and Setup Times", *Mathematical and Computer Modeling*, 27(2), 27-45.
- Chandra, P., Cooper, W.W., Li, S. and Rahman, A., 1998, "Using DEA to Evaluate 29 Canadian Textile Companies--Considering Returns-to-Scale", *International Journal of Production Economics*, 54, 129-121.
- Li, S. and Tirupati, D., 1997, "Impact of Product Mix Flexibility and Allocation Policies of Technology Choice", *Computer and Operations Research*, 24(7), 611-626.
- Li, S., 1997. "A Hybrid Two-Stage Flowshop with Part Family, Batch Production, Major and Minor Setups", *European Journal of Operational Research*, 102, 142-156.
- Chen, D., Li, S. and G. Tang, 1997, "Minimizing Tardy Jobs with A Common Due Date in Batch Production", *Mathematical and Computer Modeling*, 25(3), 81-90.

- Li, S. and Qiu, J., 1996, "Models for Capacity Acquisition Decisions Considering Operations Costs", *International Journal of Flexible Manufacturing Systems*, July, 8(3), 211-231.
- Li, S., 1996, "Multi-job Cutting Stock Problem with Due Dates and Release Dates", *Journal of the Operations Research Society*, 47(April), 490-510.
- Li, S. and Qi, Ershi, 1995, "A Max Algebra Model for a Serial Pull System with Timing and Analysis of Material Movements", *International Journal of Operations & Productions Management*, Special issue on "Modeling and Analysis of Just-in-Time Manufacturing Systems" 15(9), 70-88.
- Li, S. and Tirupati, D., 1995, "Technology Choice with Stochastic Demands and Dynamic Allocations: A Two Product Analysis", *Journal of Operations Management*, Special issue on the "Economics of Operations Management", edited by Rajiv D. Banker and Inder S. Khosla, 12(3-4), 239-258.
- Li, S. and Tirupati, D., 1994, "Dynamic Capacity Expansion Problem with Multiple Products: Technology Selection and Timing of Capacity Additions", *Operations Research*, 42(5), 958-976.
- Chandra, P., Li, S. and Stan, M., 1993, "Jobs and Tool Sequencing in an Automated Manufacturing Environment", *International Journal of Production Research*, 31(12), 2911-2925.
- Li, S. and Tirupati, D. 1992, "Technology Selection and Capacity Expansion with Two Products", *International Journal of Production Research*, 30(4), 887-907.
- Charnes, A., Cooper, W.W. and Li, S., 1989, "Using DEA to Evaluate the Efficiency of Economic Performance by Chinese Cities", *Socio-Economic Planning Sciences*; 3(6); 325 - 344.

**Books:**

- Li, S., 1994, *Strategic Investment Planning with Technology Choice in Manufacturing Systems*, New York: Garland Publishing Inc., ISBN: 0815315945.

**Refereed Book Chapters:**

- Li, S., Zhang, D. and Zhang, W., "A Study of Corporate Social Responsibility on Promoting Healthy Food by 12 Giant Food Companies (1980 – 2008)", 2009, *Obesity Prevention: The Role of Society and Brain on Individual Behavior*, edited by Dube, L., Bechara, A., Dagher, A., Drewnowski, A., LeBel, J., James, P., Richard, D. and Yada, R. (Forthcoming).

- Cooper, W.W., Li, S., Seiford, L.M. and Zhu, J., 2004, "Sensitivity Analysis in DEA", *DEA Handbook*, edited by W.W. Cooper, L.M. Seiford and J. Zhu, Kluwer Academic Publisher. ISBN: 978-4020-7797-5.
- Li, S. and Tirupati, D., 1992, "Technology Selection and Capacity Planning for Manufacturing Systems", *Intelligent Design and Manufacturing*, edited by Andrew Kusiak, pp. 259-288, John Wiley & Sons, Inc., ISBN: 978-0471534730.

***Refereed Proceedings:***

- Gumus, M., S. Li, W. Oh and S. Ray, "Shipping Fees or Shipping Free? Impact of Product and Retailer Characteristics on Shipping Charges in E-Commerce", INFORMS MSOM Conference, MIT, June 28-29, 2009.
- Li, S. and L. Wang, 2008, "Offshore or Not to Offshore: Capacity Planning Under Exchange Rate and Demand Uncertainties", The 3<sup>rd</sup> World Conference on Production and Operations Management – POM Tokyo, August 5-8.
- Lee, Y., Li, S. and Ouyang, Z., 2004, "Using Bibliometric Approach to Develop a Data Envelopment Analysis (DEA) Knowledge Network", *Proceedings of Association for Chinese Management Educators (ACME)*, Chicago, July 29-31.
- Chen, Z., Li, S. and Tirupati, D., "Capacity Planning and Technology Decision Making in a Dynamic Uncertain Environment", *Proceeding of The 3<sup>rd</sup> International Conference on Management (ICM '98)*, Shanghai, July 25-28, 1998.
- Huang, W. and Li, S., 1997, "A Two-Stage Hybrid Flowshop with Uniform Machines and Setup Times", *Proceeding of International Electronic Manufacturing Technology Symposium, IEMT Conference*, Austin, Texas, October 13-15.
- Zhang, F., Li, S., Foulds, L.R. and Tang, G., 1996, "Single Machine Scheduling with Controllable Processing Times and Compression Costs", *Proceeding of Industrial Engineering Research Center, IERC Conference*, 423-428, Minneapolis, Minnesota, May 18-20.
- Li, S. and Tang, G., 1995, "Single Machine Scheduling with Controllable Processing Time: Considering Tardy and Crash Costs", *Proceeding of International Conference on Optimization: Techniques and Applications*, ICO, 813-818, June 3-8, Chengdu, China.
- Li, S. and Qiu, J., 1994, "Models for Capacity Acquisition Decisions Considering Operations Costs", *Proceeding of ORSA Technical Section on Manufacturing Management (TECMAN)*,



TECMAN, 37-42, June, Pittsburgh, Pennsylvania.

- Li, S. and Tirupati, D., 1993, "Technology Choice and Capacity Planning: The Impact of Allocation Policies in a Stochastic Environment", *Proceeding of Industrial Engineering Research Center*, IERC, 127-132, May, Los Angeles, California.

#### ***Articles Submitted to Refereed Journals***

Chen, L., Li, S. and L. Wang, "Capacity Planning with Financial Hedging Offshoring/Outsourcing" (under second revision: *Production and Operations Management*)

Zhang, W., Li, S. and D. Zhang, "Battling Childhood Obesity through Advertising Regulation: A Supply Chain Perspective". (Under revision: *European Journal of Operational Research*)

Ebrahimipour, V., Li, S. and B. Shoja' "Supplier Selection Considering Product Life Cycle Cost: A Fuzzy Multi-Objective Model", *IEEE Engineering Management* (submitted)

#### ***Manuscripts in Preparation for Submission or In Progress:***

- Zhang, W., Zhang, D. and Li, S., "Product differentiation Decision with Strategic Customers", (in process).
- Chang, X., Li, S., Xu, H.. and D. Zhang, "Cancer Drug Shortage: A Chance Constrained Programming Model", (in process).
- Li, S., Liu, D. and B. Wu, "Economic and Commercial Values of Patents in Hard Disk Industry, (in process)
- Slaughter, S., Li, S. and Shang, J., "From Riches To Rags? The Financial Value of Software Firms' Strategies and Capabilities in the Internet Boom and Bust", (in process).

#### ***Working Papers***

- Li, S., Ray, S. and Song, Y., Optimal Joint Pricing, Stocking and Replenishment Time Strategy for a Procure-to-Stock Firm (Last revised October 2004).
- Zhang, F., Li, S., Huang, W. and Foulds, L. R., "Single Machine Scheduling with Controllable Processing Times and Compression Costs (Part I: Equal Times and Costs)," Working Paper, Lakehead University, Thunder Bay, Canada.
- Foulds, L. R., Huang, W., Li, S. and Tang, G., "Single Machine Scheduling with Controllable Processing Times and Compression Costs (Part II: Heuristic for the General Case)," Working Paper, Lakehead University, Thunder Bay, Canada

***Non-refereed Conference Presentations (All Were Presented In Invited Sessions and Acted as the Chair for Many Sessions):***

- Chang, W., Chen, L. and S. Li, “Optimal Warehouse Storage Problem”, Management Science Workshop, East China University of Science and Technology, July 4<sup>th</sup>, 2012.
- Chen, L., Li, S. and L. Wang, “Operational Hedging and Financial Hedging in Low Cost Countries”, The Fifth International Annual Conference of the Chinese Scholars Association for Management Science and Engineering (CSAMSE), June 30 – July 1<sup>st</sup>, 2012
- Ebrahimipour, V., Li, S. and B.M. Shoja, “Supplier Selection Considering Product Life Cycle Cost: A Multi-Objective Model”, IEEE International Systems Conference, Vancouver, BC, Canada, March 19-22, 2012.
- Chen, L. and S. Li, “A Chance-Constrained Approach to Solve Drug Shortage Problems”, 23<sup>rd</sup> Annual POMS Conference, Chicago, Illinois, USA, April 20-23, 2012.
- Li, S. and L. Chen, “Demand and Drug Supply Uncertainty in Cancer Patient Treatment: A Supply Chain Perspective”, INFORMS, Charlotte, Nov. 13-16, 2011.
- Zhang, W. Li, S. and Zhang, D., “Product Differentiation Decision with Strategic Customers”, POMS, Reno, April 29 – May 2, 2011. (Session Chair)
- Li, S., J. Shang and S. Slaughter, “Software Industry in Boom and Bust”, INFORMS Conference, Austin, Nov. 5 - 10, 2010.
- Li, S. and L. Wang, “Operational Hedging and Financial Hedging in Low Cost Countries”, The Third International Annual Conference of The Overseas Chinese Scholars Association in Management Science and Engineering, Beijing, China, July 11-12, 2010.
- Zhang, W., Li, S. and D. Zhang, “Pricing and Advertising in Food Chain“, 21<sup>st</sup> Annual POMS Conference, Vancouver, May 7-10, 2010.
- Li, S., J. Shang and S. Slaughter, “Why do Software Companies Fail? An Empirical Analysis of Firm Capabilities and Survival in the Software Industry from 1995 to 2005”, CORS-INFORMS International Conference, Toronto, June 14-17, 2009.
- Gumus, M., S. Li, W. Oh and S. Ray, Shipping Fees or Shipping Free? Impact of Product and Reatiler Characteristics on Shipping Charges in E-Commerce, Supply Chain Leadership—Rising the Bar Conference, Supply Chain & Logistics Association Canada, Toronto, April 28 – 30, 2009.
- Wang, L. and Li, Wang, “Capacity Planning with Financial Hedging in Offshoring/ Outsourcing”, Informs Annual Meeting, Washington D.C., Oct. 11- 14, 2008.

- Gumus, M., Li, S., Ray, S. and Oh, W., “Analysis of Online Product Pricing and Shipping Charges”, *INFORMS Annual Meeting*, Washington D.C. Oct. 11- 14, 2008.
- Li, S. and L. Wang, 2008, “Offshore or Not to Offshore: Capacity Planning Under Exchange Rate and Demand Uncertainties”, *The 3<sup>rd</sup> World Conference on Production and Operations Management – POM Tokyo*, August 5-8.
- Wang, L. and S. Li, “To Offshore or Not to Offshore? An Analysis of Risk and Benefits”, *INFORMS*, Seattle, November 4-7, 2007.
- Li, S., Shang, J. and Slaughter, S., “Which Strategy to Adopt in Boom and Bust? A DEA Analysis on Software Companies: 1995-2004”, *INFORMS, Pittsburgh*, November, 2006.
- Ray, S., Li, S. and Song, Y., “Structural Properties of Buyback Contracts for Price-Setting Newsvendors”, *INFORMS*, Pittsburgh, November, 2006.
- Li, S., Shang, J. and Slaughter, S., “Linking Strategy with Capabilities in Software Industry—DEA Window and Stochastic Efficiency Frontier Analyses”, *Asia Pacific Productivity Conference*, Seoul, Korea, Aug. 17-19, 2006.
- Li, S. and J. Shang, “Performance Evaluation of Software Companies: Operational Efficiency vs. Stock Returns (1995 – 2000)”, *POMS Annual Conference*, April 30, Boston, 2006.
- Ray, S., Song, Y. and S. Li, “Structural Properties of Buyback Contracts for Price-Setting Newsvendors”, *CORS National Conference*, Montreal, May 2006.
- Ray, S., Li, S. and Song, Y., “Analysis of Buyback Contracts for Price-Sensitive Stochastic Demand”, *POMS Annual Conference, Boston*, May 2006.
- Ray, S., Li, S. and Song, Y., “Structural Properties of Buyback Contracts for Price-Sensitive Stochastic Demand”, *POMS Annual Conference, Chicago*, April 2005.
- Ray, S., Li, S. and Song, Y., “Structural Properties of Buyback Contracts for Price-Sensitive Stochastic Demand”, *CORS National Conference, Halifax*, May 2005.
- Li, S., Loulou, R. and Rahman, A., 2005, “Technology Progress & Technology Acquisition: A Stochastic Programming Approach”, May 13<sup>th</sup>, *GERAD 25<sup>th</sup> Anniversary*, Montreal, Canada.
- L. Wang, S. Li and A. Murat, “Selection of Contract Supplier Under Price and Demand Uncertainty in a Dynamic Market,” *Optimization Days*, Montreal, May 9-11, 2005.
- Li, S. and Shang, J., “Operating Efficiency, Economies of Scale and Stock Returns in

Software Industry (1995 – 2002)”, *INFORMS Annual Meeting*, Denver, Oct. 24 – 27, 2004.

- Ray, S., Li, S. and Song, Y., “Tailored Supply Chain Decision-Making Under Price-Sensitive Stochastic Demand and Delivery Uncertainty”, *INFORMS National Conference*, Denver, Oct. 24 – 27, 2004.
- Lee, Y., Li, S. and Ouyang, Z., “Using Bibliometric Approach to Develop a Data Envelopment Analysis (DEA) Knowledge Network”, *Conference of Association for Chinese Management Educators (ACME)*, Chicago, July 29-31, 2004.
- Li, S., Huang, W. and Murat, A., “Selection of Contract Suppliers under Price and Demand Uncertainty in a Dynamic Mark”, *CORS/INFORMS Joint International Meeting*, May 16-19, Banff, Alberta, Canada, 2004.
- Li, S. and Khodabakhshi, M., “Using DEA to Assess Research Productivity of 60 Canadian Business Schools (1990 – 1999)”, *CORS/INFORMS Joint International Meeting*, May 16-19, Banff, Alberta, Canada, 2004.
- Li, S., Huang, W. and Murat, A., “Selection of Contract Suppliers Under Price and Demand Uncertainty in a Dynamic Mark”, *EURO/INFORMS Joint International Meeting*, Istanbul, July 6-10, 2003.
- Li, S., Nicolaus, R. and Shang, J., “Performance Evaluation of Software Companies: Operational Efficiency vs. Stock Returns (1995 – 2000)”, *POMS Annual Conference*, Savannah, GA, April 4-7, 2003.
- Li, S. and Shang, J., “Supply Chain Optimization For High-Tech Products”, *INFORMS International Hawaii*, Hawaii, June 17-20, 2001.
- Li, S., “Supply Chain and B2B in North America”, *The First China and US Advanced Workshop in Electronic Commerce*, May 28-30, 2001.
- Li, S. Pinsonneault, A. and Ouyang, Z., “Using DEA to Assess Web Efficiency and the Impact of Media and Information Richness”, *North American Productivity Workshop*, Union College, NY, June 15-17, 2000.
- Li, S., Loulou, R. and Rahman, A., “Technology Acquisition in a Stochastic Environment”, *INFORMS Conference*, Salt Lake City, May 7-10, 2000.
- Cooper, W. W. and Li, S., “Sensitivity and Stability Analysis in DEA: Some Recent Development”, *Third DEA Workshop*, Oct. 28-31, Copenhagen, Demark, 1999.
- Cooper, W.W., Deng, H., Gu, B., Li, S. and Thrall, R.M., “Using DEA to Improve the

Management of Congestion in Chinese Industries”, *The International Management Conference*, August 10-13, Dalian, China, 1999.

- Huang, W., Li, S. and Tirupati, D., “Selection of Suppliers Considering Learning Effect & Technology Improvement”, *3<sup>rd</sup> International Industrial Engineering Conference*, May 25-28, Montreal, Canada, 1999.
- Li, S., “Impact of Information Sharing on the Distortion of Demand”, *INFORMS Conference*, Cincinnati, May 2-5, 1999.
- Huang, W., and Li, S. and Tirupati, D., “Selection of Suppliers Considering Learning Effect & Technology Improvement”, *INFORMS Conference*, Cincinnati, May 2-5, 1999.
- Li, S., “Technology Progress and Technology Acquisition in a Stochastic Environment”, *POMS Annual Conference*, Charleston, SC, March 20-24, 1999.
- Li, S., Loulou, R. and Rahman, A., “Technology Progress and Technology Acquisition”, *VII International Conference on Stochastic programming*, Vancouver, Canada, August 8-16, 1998.
- Chen, Z., Li, S. and Tirupati, D., “Capacity Planning and Technology Decision Making in a Dynamic Uncertain Environment”, *The 3<sup>rd</sup> International Conference on Management (ICM '98)*, Shanghai, July 25-28, 1998.
- Li, S. and Rahman, A., “Technical Progress & Technology Acquisition: A stochastic Programming Approach”, *INFORMS Conference*, Montreal, April 26-29, 1998.
- Huang, W. and Li, S., “A two-stage Hybrid Flowshop with Uniform Machine & Setup Times”, *INFORMS Conference*, Montreal, April 26-29, 1998.
- Huang, W. and Li, S., “A Hybrid Flowshop with Uniform Machines and Setup Times”, *International Electronic Manufacturing Technology Symposium, IEMT Conference*, Austin, Texas, October 13-15, 1997.
- Huang, W. and Li, S., “A Flowshop Scheduling Problem in An Airplane Engine Plant”, *Joint International INFORMS*, Barcelona, Spain, July 14-17, 1997.
- Chen, Z., Li, S. and Tirupati, D., “Capacity Expansion & Technology Choice with Dynamic, Uncertain demands: A Scenario Based Stochastic Programming Approach”, *INFORMS Conference*, San Diego, May 4-7, 1997.
- Huang, W., Li, S. and Tang, G., “Single Machine Scheduling with Controllable Processing Times and Compression Costs,” *INFORMS*, Atlanta, November 2-5, 1996.

- Li, S., A Hybrid To-Stage Flowshop with Part Family, Batch Production, Major and Minor Setups, *International Conference on Management and Business*, Lahore University of Management Science, Lahore, Pakistan, June 3-5, 1996.
- Huang, W., Li, S. and Tang, G., "Single Machine Scheduling Problem: Minimizing Lateness Cost and Crashing Cost, *SIAM Conference*, Victoria, B.C. May 20-22, 1996.
- Zhang, F., Li, S., Foulds, L.R. and Tang, G., Single Machine Scheduling with Controllable Processing Times and Compression Costs, *IERC Conference*, Minneapolis, Minnesota, May 18-20, 1996.
- Li, S. and Tirupati, D., "Impact of Product Mix Flexibility and Allocation Policies on Technology Choice", *Optimization Days*, May 10 - 12, Montreal, 1996.
- Chen, D., Li, S. and Tang, G., Minimizing Tardy Jobs with a Common Due Date in Batch Production, *INFORMS*, Washington D.C., May 5-8, 1996.
- Chandra, P., Cooper, W.W., Li, S. and Rahman, A., Using DEA in Capacity Decisions, *INFORMS*, Washington D.C., May 5-8, 1996.
- Chandra, P., Li, S. and Rahman, A., DEA Evaluation and Planning in Canadian Textile Industries, *INFORMS*, New Orleans, October 29 - November 1, 1995.
- Li, S. and D. Tirupati, Technology Choice with Stochastic Demands and Dynamic Capacity Allocation, *INFORMS International Singapore*, June 25-28, 1995.
- Li, S., Scheduling in a Non-Traditional Flowshop, *INFORMS International Singapore*, June 25-28, 1995.
- Li, S. and Tang, G., Single Machine Scheduling with Controllable Processing Time: Considering Tardy and Crash Costs, *International Conference on Optimization: Techniques and Applications*, Chengdu, China, June 8 - 10, 1995.
- Li, S., "A Cutting Stock Problem with Due Dates and Release Dates", *Optimization Days*, May 10-12, Montreal, 1995.
- Li, S. and Qi, E., "A Max Algebra Model in a Serial Line with Timing and Analysis of Material Movement", *INFORMS Meeting*, Los Angeles, April 23-26, 1995.
- Li, S. and Tirupati, D., "Capacity Expansion and Allocation Policies in Stochastic Environment", *ORSA/TIMS Meeting*, Detroit, October 23-26, 1994.
- Li, S. and Qiu, J., "Models for Capacity Acquisition Decisions Considering Operations

Costs”, *ORSA Technical Section on Manufacturing Management (TECMAN)*, June 27-28, Pittsburgh, Pennsylvania, 1994.

- Li, S. and Tirupati, D., “Technology Choice and Capacity Planning: The Impact of Allocation Policies in a Stochastic Environment”, *Second National Conference of IERC (Industrial Engineering Research Center)*, May 1993.
- Li, S. and Qiu, J., “Technology and Capacity Decisions under Inventory Control Policy in a Stochastic Environment”, *ORSA Technical Section on Manufacturing Management (TECMAN)*, Chicago, May, 1993.
- Li, S. and Tirupati, D., "Technology Choice and Capacity Planning: The Impact of Allocation Policies in a Stochastic Environment", *Optimization Days*, May 12 - 14, Montreal, 1993.
- Chandra, P., Li, S. and Stan, M., "Jobs and Tool Sequencing in an Automated Manufacturing Environment", *Optimization Days*, Montreal, May 12-14, 1993.
- Li, S. and Tirupati, D., “Investment Strategies for Flexible Technology with Stochastic Demand”, *TIMS/ORSA Conference*, San Francisco, November, 1992.
- Li, S. and Tirupati, D., A Multi-Product, Multi-Period Investment Model with Dynamic Stochastic Demands, *National TIMS/ORSA Conference*, Orlando, Florida, April, 1992.
- Ahn, T., Cooper, W.W., Kumbhakar, S., Li, S. and Yu, X., DEA-Stochastic Frontier Evaluations Effects of the Chinese Economic Reforms, *Conference on Current Issues in Productivity*, The State University of New Jersey at Rutgers, December, 1991.
- Li, S. and Tirupati, D., “Dynamic Capacity Expansion Problem with Multiple Products”, *National TIMS/ORSA Conference*, Anaheim, California, November, 1991.
- Li, S. and Tirupati, D., “Technology Choice with Stochastic Demands and Dynamic Capacity Allocation: A Two Product Analysis”, *National TIMS/ORSA Conference*, Anaheim, California, November, 1991.
- Li, S. and Tirupati, D., “Capacity Expansion Problem with Multiple Products: Technology Choice and Timing of Capacity Additions”, *National TIMS/ORSA Conference*, Las Vegas, May 1990.

## **Referenced Conference Talk, Invited Presentations in Universities and Industries**

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Li, S., “Global Supply Chain Risk Management and Sustainability”, MBA Japan Forum, Tokyo, Japan, July 9<sup>th</sup>, 2012..

Li, S., J. Shang and S. Slaughter, “Why do Software Companies Fail? An Empirical Analysis of Firm Capabilities and Survival in the Software Industry from 1995 to 2005”, School of Management, Jilin University, May 10<sup>th</sup>, 2009.

Gumus, M., S. Li, W. Oh and S. Ray, “Shipping Fees or Shipping Free? Impact of Product and Retailer Characteristics on Shipping Charges in E-Commerce”, Management School, Nankai University, Tianjin, May 8<sup>th</sup>, 2009.

Gumus, M., S. Li, W. Oh and S. Ray, “Shipping Fees or Shipping Free? Impact of Product and Retailer Characteristics on Shipping Charges in E-Commerce”, Shanghai University of Finance and Economics, May 3<sup>rd</sup>, 2009.

S. Li and Wang, L., “Offshore or Not to Offshore: Capacity Planning Under Demand and Exchange Rate Uncertainties”, World Conference on Production and Operations Management, Tokyo, Japan, August 5-8, 2008.

Li, S., “Internal Capabilities and Firm Survival: A Study of the Software Industry (1995-2005)”, Xiamen Univeristy, Xiamen, China, June 3<sup>rd</sup>, 2007.

Li, S., “Internal Capabilities and Firm Survival: A Study of the Software Industry (1995-2005)”, Shanghai Jiao Tong University, Shanghai, China, May 30<sup>th</sup>, 2007.

Slaughter, S., Li, S. and J. Shang, “The Economic Value If Software Firms’ Strategies and Capabilities in the Internet Boom and Bust: An Empirical Study”, Workshop on Information Systems and Economics (WISE), Kellogg School of Management, Northwestern University, Evanston, IL, 2006.

Li, S., “Operations Management and Current Research Trends”, Shanghai Second University of Science and Technology, June 13, 2005, Shanghai, China. (Invited Talk)

Li, S., “E-Commerce and Manufacturing”, 1<sup>st</sup> Sino-America Workshop on E-Commerce, May 28-30, 2001, Xi’an, China.

Li, S., “Research Methodology in Operations Management”, The Third International Management Conference, sponsored by UUCIPP and Chinese Natural Science Foundation, Shanghai, China, Aug. 25-27, 2000. (Keynote Speaker)

Li, S., “Technology Progress with Uncertainty and Research on E-Commerce”, Institute of



System Engineering and Operations Research, Chinese Academy of Science, Beijing, China, May 29, 2000. (Invited Talk)

Li, S., “Current Research Topics in Technology Management and Operations Management”, Overseas Young Chinese Scholar Research Seminars, In honor of Prof. Xu, Guozhi’s 80<sup>th</sup> Birthday, The Institute of System Engineering and Operations Research, the Chinese Academy of Science, Dec. 18-20, 1999. (Invited Talk)

Li, S., “Stochastic Programming Models in Technology and Capacity Planning Problems”, Mechanical Engineering Department, University of Texas at Austin, Invited Talk, Sept. 18, 1998. (Invited Talk)

Li, S., “Research Issues in Supply Chain in China”, Tongji University, Shanghai, August 3, 1998. (Invited Talk)

Li, S., “Application of Stochastic Programming in Manufacturing”, Shanghai Second Polytechnic University, August 8, 1998. (Invited Talk)

Li, S., “Recent Research Topics in Operations Management”, Invited Talk, Dalian University of Technology, Dalian, July 15, 1998. (Invited Talk)

Li, S., Chen, Z. and Tirupati, D., “A Scenario Based Stochastic Programming Approach for Technology and Capacity Planning”, Laval University, Dec. 4, 1997. (Invited Talk)

Li, S., “Capacity and Technology Planning in a Uncertain World”, IBM, Granby, Quebec, Canada, 1997. (Invited Talk)

## **Contributions to Graduate and Post-graduate Training**

### **▪ *Supervision of Doctoral Students and Post-doctoral Fellow***

Zhexiong Tao      Doctoral Student, 2012

Hedayat Alibeiki    Doctoral Student, 2012 -

Hang Su             Doctoral trainee from Jilin University of China, Sept. 2011 -

Wenqing Zhang     Doctoral Student, 2006– 2011

Letian Wang         Doctoral Student, 2004 – 2010

Leila Rasek         Doctoral Student (transferred to U. of Montreal and graduated)

Dr. Yuyue Song      Post-doctoral Fellow, Co-supervised with Prof. S. Ray, 2003 – 2004

Qing Hu              Doctoral Student, 2002 – 2005

▪ ***Ph.D. Committees***

Internal Ph.D. Committee Member      Judson Kenney, Deghani , Leila Rasek, Fatma Gzara,  
Yender Lee, Hankyu Chu, Abdullah Dasci, Sudheer  
Gupta, Atiqur Rahman, Jin Qiu

External Ph.D. Committee Member      Xin Zhen (UQAM), Lucila Perez (UQAM), Song Yang  
(UQAM), Pervaiz Iqbal (UQAM)

▪ ***MBA Independent/Project Study Supervision*** (3 or 6 credits)

MMM Research Projects, Frank Fan, Oct. 2004 – Dec. 2004

MMM Research Projects, Doris Zhang, Oct. 2004 – Dec. 2004

Maria Seden (2002 – 2003), Co-supervised with Prof. S. Ray

Hou Cheng Tang (2003 – 2004), Co-Supervised with Prof. S. Ray and Prof. T. Boyaci

Chi Zhang (2004 – 2005), Co-Supervised with Prof. S. Ray

MMM Research Project, Yun Qiu, Dec. 2002 – April 2003

Independent Study, William Heman, MBA Medicine, Winter 2002

Independent Study, Vincin Ponette, MBA Medicine, Winter 2002

Independent Study, Lana Touma, MBA Program, Winter 1997

Master thesis committee member, Nadia Bhuiyan, Mechanical Engineering, McGill (completed, 1997)

Master Oral Defense Committee, Panagiotis-Marios Klapsis, Summer 1997

Independent Study, Danny Tam, Summer 1997, MBA program

Independent Study, Stuart McLean, Summer 1997, MBA program

Independent Study, Julia Cherwenka, Summer 1998, MBA program

Independent Study, Danny Tam, Winter 1998, MBA program

**Review Activities**

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Guest editor of Special Issue of International Journal of Production Economics on Interdisciplinary

Research: The Trend of Operations Management (2010 – 2011)

Referee for the following journals and granting agencies:

<i>Management Science</i>	<i>Operations Research</i>
<i>Manufacturing &amp; Service Operations Management</i>	<i>Production and Operations Management</i>
<i>IIE Transactions</i>	<i>Naval Research Logistics</i>
<i>European Journal of Operational Research</i>	<i>International Journal of Production Economics</i>
<i>Annals of Operation Research</i>	<i>INFOR</i>
<i>Operations Research Letters</i>	<i>IEEE Transactions on Engineering Management</i>
<i>Energy Systems and Policy</i>	<i>Journal of Operational Research Society</i>
<i>Computers and Operations Research</i>	<i>Socio-Economic Planning Sciences</i>
<i>International Journal of Information Technology and Decision Making</i>	<i>International Journal of Flexible Manufacturing Systems</i>
<i>International Transaction on Operational Research</i>	<i>International Journal of Quality &amp; Reliability Management</i>
<i>Mathematical and Computational Modeling</i>	<i>Journal of Intelligent Manufacturing</i>
<i>OMEGA</i>	<i>Production Planning &amp; Control</i>
<i>FCAR</i>	<i>NSERC Grant Proposal</i>

## **Professional Affiliations**

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1999 – Present	Member, Canadian Operational Research Society (CORS)
2000 – Present	Member, Institute for Operations Research and the Management Sciences (INFORMS)
1997 - Present	Member, Production and Operations Management Society (POMS)
1999 – Present	Member, Groupe d'Études et de Recherches en Analyse des Décisions (GÉRAD)
2001 – Present	Member, Women in OR, INFORMS

## **Conference Organization**

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- Conference Organization Committee Member, World Conference on Production and Operations Management, Tokyo, Japan, August 5-8, 2008.
- Conference Committee Member, Chinese Academy of Sciences Symposium on Data Mining

and Knowledge Management, Beijing, China, July 12 – 14, 2004.

- Conference Committee Member, 1<sup>st</sup> Joint China-USA International Conference on Industrial Engineering & 8th International Conference on Industrial Engineering and Engineering Management, August 10 – 12, 2001.
- Conference Program Co-Chair, Conference Sponsored by the China-Canada University Industry Partnership Program (CCUIPP), Aug. 25-27, 2000.
- Conference Program Co-Chair, Conference Sponsored by the China-Canada University Industry Partnership Program (CCUIPP), Aug. 10-13, 1999.
- Conference Committee Member, The 3<sup>rd</sup> International Industrial Engineering Conference, Montreal, May 25-28, 1999.
- Annual MMM Program Conference

## **Industry Partnership**

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Academic Partner of Sylogix Inc., a consulting firm specializing in projects related to Operations Management/Management Science (<http://www.sylogix.ca/>).

## **Teaching Experience**

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1991 - Present	Operations Management Core Course, Undergraduate BCom Program Desautels Faculty of Management, McGill University
2001 - Present	Internet and Manufacturing with Following Changing Contents: E- Commerce; Data Mining; Supply Management Elective, MBA Program; Core Course, MMM Program Desautels Faculty of Management, McGill University
1998 - 1998	Operations Management Core Course, MBA Program Desautels Faculty of Management, McGill University
1992 - 1998	Total Quality Management Elective, MBA Program, Core-Course, MMM program Desautels Faculty of Management, McGill University
1995 - 1998	Technology Management Elective, MBA Program, Core-Course, MMM program Desautels Faculty of Management, McGill University
1995 - 2000	Analysis of Manufacturing System

Elective, MBA Program, Core-Course, MMM program  
Desautels Faculty of Management, McGill University

## **Major Service Contributions to Faculty/University**

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- University Tenure Committee (2008 – 2009)
- University Promotion Committee (2008 – 2009)
- Undergraduate Student Scholarship Committee (2008 – 2009)
- Director, Management Science Research Center (1997 – 1998, September 1999 – Present)
- University SCTP Committee, September 2006 – September 2009.
- University Continuing Education Committee: member, 1994 – Present
- Desautels Faculty of Management, Member of the MBA Redesign Task Force, 2006 - present
- Chair, Research Grant Committee, China-Canada University Industry partnership Program (CCUIPP), 1998-2001.
- Pro-Dean, Microbiology Department, Ph.D. thesis defense, Dec. 2006.
- Pro-Dean, Medical School, Ph.D. thesis defense, 2003.
- Pro-Dean, Department of Art History and Communication Studies, Jan. 17<sup>th</sup>, 2003.
- Pro-Dean, Linguistic Department, Ph.D. thesis defense, 2002.
- Pro-Dean, Nursing School, Ph.D. thesis defense, 2001.
- Pro-Dean, Mathematical and Statistical Department, Ph.D. thesis defense committee of Mr. Mohammad Alfrei, Sept. 5<sup>th</sup>, 2000.
- Ph.D. Committee: member, 1996 – 1998; 2006 –
- Faculty Computer Policy Committee: member, 1995 – 1998
- Master of Manufacturing Management Committee: member, 1994 – 1998
- Faculty Research Committee: member, 1993 – 1994
- Faculty China / Southeast Asia Committee: member, 1993 – 1994
- Graduate Faculty Council: member, 1992 – 1993
- Library Committee: member, 1991 – 1993

## **Academic Honors/Scholarships**

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Best Paper Award, "Why do Software Firms Fail? Capabilities, Competitive Actions, and Firm Survival in the Software Industry from 1995 to 2007, *Information Systems Research*, Sept. 2010, 21(3), pp. 631-654.

Kuang Yamin Chair Professor (Honorary Appointment), Jilin University, 2009 – 2012.

Distinguished Visiting Scholar Awards, National Natural Science Foundation of China, July, 1998.

National Scholarship, the Ministry of Education, People's Republic of China, September 1983 to September of 1985.

United Nations Scholarship for Developing Countries, United Nations, June 1982 to November of 1982.