

**YONGHUA JI**

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**EDUCATION**

**Ph.D.**, Information Systems, 2003, University of Texas at Dallas  
**Master of Science** (Physics), 1997, The University of Washington, Seattle  
**Master of Science** (Physics), 1996, The Institute of Theoretical Physics, Chinese Academy of Sciences  
**Bachelor of Science** (Physics), 1993, University of Science and Technology of China

**ACADEMIC EXPERIENCE**

School of Business, University of Alberta  
Alex Hamilton Professor of Business (2024-2027)  
Full Professor, 2023 -  
School of Business, University of Alberta  
Associate Professor, 2009 - 2023  
School of Business, University of Alberta  
Assistant Professor, 2003 - 2009

**RESEARCH INTERESTS**

Reinforcement learning  
Big data and business analytics  
Economics of Information Systems and Security

**TEACHING INTERESTS**

Database and Business Analytics  
Accounting Information Systems

**RESEARCH WORK**Peer-Reviewed Articles

- R. Guo, Z. Jiang, **Y. Ji**. Optimal Dynamic Advertising Policies in Digital and Traditional Channels: A Control-Theoretic Approach. *Information Systems Research* (forthcoming).
- Y. Dong, N. Hu, **Y. Ji**, C. Ni, J. Xie. 2024. The Impact of Government Outsourcing Contracts on High-tech Vendors: An Empirical Study. *Journal of MIS* 41(2) 581-609.
- C. Sun, **Y. Ji**, and X. Geng. 2023. Which Enemy to Dance with? A New Role of Software Piracy in Influencing Anti-piracy Strategies. *Information Systems Research* 34(4) 1711-1727.
- C. Sun, and **Y. Ji**. 2022. For Better or For Worse: Impacts of IoT Technology in e-Commerce Channel. *Production and Operations Management* 31(3) 1353-1371.

- Y. Ji, R. Wang, and Q. Gou. 2019. Monetization on Mobile Platforms: Balancing in-App Advertising and User Base Growth. *Production and Operations Management* 28 (9) 2202-2220.
- C. Sun, Y. Ji, B. Kofal, and R. Patterson. 2017. Business-to-Consumer Platform Strategy: How Vendor Certification Changes Platform and Seller Incentives. *ACM Transactions on Management Information Systems* 8(2-3) Article No. 6 (42 pages).
- Y. Ji, S. Kumar and S. Sethi. 2017. Needle Exchange for Controlling HIV Spread under Endogenous Infectivity. *INFOR: Information Systems and Operational Research* 55(2) 93-117.
- Y. Ji, S. Kumar and V. Mookerjee. 2016. When Being Hot is not Cool: Managing Hot Lists in Information Security. *Information Systems Research* 27(4) 897-918.
- D. Liu, Y. Ji, and V. Mookerjee. 2011. Knowledge Sharing and Investment Decisions in Information Security. *Decision Support Systems* 52 95-107.
- Y. Ji, S. Kumar, V. Mookerjee, S. Sethi, and D. Yeh. 2011. Optimal Enhancement and Lifetime of Software Systems: A Control Theoretic Analysis. *Production and Operations Management* 20(6) 889-904.
- K. Dogan, Y. Ji, V. Mookerjee, and S. Radhakrishnan. 2011. Managing the Versions of a Software Product under Variable and Endogenous Demand. *Information Systems Research* 22(1) 5-21.
- Y. Tan, Y. Ji, and V. Mookerjee. 2006. Analyzing Document Duplication Effects on Joint Policies for Browser and Proxy Caching. *INFORMS Journal on Computing* 18(4) 506-522.
- Y. Ji, V. Mookerjee, and S. Sethi. 2005. Optimal Software Development: A Control Theoretic Approach. *Information Systems Research* 16(3) 292-306, 2005.

#### Other publications

- Fišar, M., Greiner, B., Huber, C., Katok, E., Ozkes, A., and the Management Science Reproducibility Collaboration (2024). Reproducibility in Management Science. *Management Science* 70(3) 1343-1356 (Note: Member of the Management Science Reproducibility Collaboration)

#### Under Review

- C. Sun, Y. Ji, R. Mookerjee. Channel Encroachment and IoT Information Sharing (*Production and Operations Management*; Major revision)
- Y. Jiang, Y. Ji, X. Geng. Blessing or curse: A competitive analysis of blockchain-caused information leakage on e-commerce platform

#### Peer-reviewed Conference proceedings

- R. Guo, Z. Jiang, Y. Ji. Optimal Dynamic Advertising Policies in Digital and Traditional Channels: A Control-Theoretic Approach. CSWIM 2024 (**Best paper nominee**).
- Yi Dong, Nan Hu, Yonghua Ji, Chenkai Ni, Jing Xie. Does It Matter Who Your Clients Are: Market Reactions to Earnings of High-tech Firms. *CSWIM 2018*.
- C. Sun, Y. Ji. 2015. Software Anti-piracy and Pricing in a Competitive Environment: a Game Theoretic Analysis. *Proceedings of INFORMS CIST 2015*.
- C. Sun, Y. Ji. 2015. Software Anti-piracy in a Competitive Environment: a Game Theoretic Analysis. *Proceedings of CSWIM 2015*.

- S. Kumar, **Y. Ji**, V. Mookerjee. 2012. Managing Agile Software Development: A Control-Theoretic Approach. *Proceedings of WITS 2012*.
- **Y. Ji**, M. Fan and Y. Tan. 2006. Optimal Timing of Dynamic Requirement Reviews for Software Development Process. *Proceedings of WITS 2006*.
- **Y. Ji**, S. Kumar, S. Sethi, and D. Yeh. 2006. Dynamic Optimization of Software Enhancement Effort. *Proceedings of WITS 2006*.
- D. Liu, **Y. Ji**, and V. Mookerjee . 2005. Information Security Investment with Different Information Types: A Two-Firm Analysis. *Proceedings of AMCIS 2005*.
- **Y. Ji**, V. Mookerjee and S. Sethi. 2003. An Integrated Planning Model of System Development and Release. *Proceedings of WITS 2003*. (**Best paper nominee**)
- **Y. Ji**, V. Mookerjee and S. Radhakrishnan. 2002. Real Options and Software Upgrades: An Economic Analysis. *Proceedings of ICIS 2002*.
- **Y. Ji** and V. Mookerjee. 2002. Optimal Software Development and Debugging Policies: A Control Theoretic Approach. *Proceedings of WITS 2002*. (**Best paper nominee**)

#### Conference Presentations

- “Blockchain technology and seller competition on e-commerce platforms”, October 2022, INFORMS Annual Conference, Indianapolis, Indiana.
- “Does It Matter Who Your Clients Are: Market Reactions to Earnings of High-tech Firms”, June, 2018, CSWIM, Qingdao, China.
- “Dynamic Optimization of Software Maintenance Requests with Duplications”, October 2017, INFORMS Annual Conference, Houston, Texas
- “Optimizing Software Development in an Uncertain Environment”, May 2016, 58th CORS Annual Conference, Banff, Alberta.
- “Managing Agile Software Development: A Control-Theoretic Approach”, December 2012, *WITS 2012*, Orlando, Florida.
- “Optimal Timing of Dynamic Requirement Reviews for Software Development Process”, December 2006, *WITS 2006*, Milwaukee, Wisconsin.
- “Dynamic Development of Software Product Line”, May 2006, International Conference on Management Sciences: Optimization Models and Applications *in honor of Dr. Suresh P. Sethi*, Dallas
- “Optimal Software Development: A Control Theoretic Approach”, November 2005, *INFORMS 2005*, San Francisco (**Invited talk**)
- “An Integrated Planning Model of Systems Development and Release”, December 2003, *WITS 2003*, Seattle, Washington
- “Real Options and Software Upgrades: An Economic Analysis”, December 2002, *ICIS 2002*, Barcelona, Spain
- Optimal Software Development and Debugging Policies: A Control Theoretic Approach”, December 2002, *WITS 2002*, Barcelona, Spain

#### Book Chapter

- S. Kumar, K. Dutta, and **Y. Ji**. 2017. *The Routledge Companion to Production and Operations Management*. Chapter 28 Telecommunication and Operations Management.

### Review For

*Information Systems Research, Operations Research, Management Science, INFORMS Journal on Computing, Decision Science, EJOR, Decision Support Systems, Production and Operations Management, ICIS, CSWIM, WITS, AMCIS*

### **Editorial Boards**

*Production and Operations Management* (Senior Editor from 2014 - )  
*Information Technology and Management* (co-Editor-in-Chief, from January 2020)

### **PROFESSIONAL ACTIVITIES**

**Co-Track Chair** for *Product Innovation and Technology Management* track at POM Annual Meeting 2018, Houston Texas

#### **Program Committee Member**

Workshop on Information Technologies and Systems  
China Summer Workshop on Information Management (CSWIM)

### **TEACHING EXPERIENCE**

*MIS/ACCTG 437: Accounting Information Systems* (2006-), University of Alberta  
*MIS 418/618: Introduction to E-commerce* (2009-), University of Alberta  
*MIS 412: Managerial Support Systems* (Fall 2004), University of Alberta  
*MIS 311: Management Information Systems* (Fall 2007, Fall 2006, Fall 2005, Fall 2004, Winter 2004), University of Alberta  
*BA 4318: Programming in Visual Basic* (Fall, 2002), University of Texas at Dallas  
*IS 320: Fundamentals of Application Programming* (Fall, 2000), University of Washington, Seattle

### **RESEARCH AWARDS AND HONORS**

*Alex Hamilton Professor of Business* (2024-2027)  
*G.R.A. Rice Faculty Fellowship* (2022)  
*NOVA Management of Technology Endowment*, University of Alberta School of Business, (2019)  
*Faculty Research Grant*, University of Alberta China Institute, (2019)  
*Faculty Travel Grant*, University of Alberta China Institute, (2018)  
*J.D. Muir Fund*, University of Alberta School of Business, (2005; 2007, 2008)  
*Xerox Faculty Fellowship*, University of Alberta School of Business, (2004, 2010)  
*Department of Management Science Award*, University of Washington School of Business Administration, 2000–2001  
*Master's Dissertation Award*, The Institute of Theoretical Physics, Chinese Academy of Sciences, 1996