

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

AI and business analytics
Economics of Information Systems and Security

TEACHING INTERESTS

Database and Business Analytics
Accounting Information Systems

RESEARCH WORK

Peer-Reviewed Articles

- C. Sun, **Y. Ji**, R. Mookerjee. Channel Encroachment and Supply Chain Performance: The Effects of IoT Data Sharing. *Production and Operations Management* (forthcoming)
- 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)

Peer-reviewed Conference proceedings

- W. Lu, C. Sun, **Y. Ji**, J. Wu. Reciprocal sharing in an IoT supply chain: The signaling effect of IoT data-mining effort. *CSWEIST 2025*, China.
- 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

- W. Lu, C. Sun, **Y. Ji**, J. Wu. Reciprocal sharing in an IoT supply chain: The signaling effect of IoT data-mining effort. *CSWEIST 2025*, China.
- “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