

## YONGHUA JI

Associate Professor of MIS

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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  
Associate Professor of MIS, 2009 -  
School of Business, University of Alberta  
Assistant Professor of MIS, 2003 - 2009

## RESEARCH INTERESTS

Economics of Information Systems and Security  
Big data and business analytics  
Software Development, Maintenance, and Reuse

## TEACHING INTERESTS

Accounting Information Systems  
Programming Languages: Python, C#, Java, VB.NET  
Information Systems Security and Auditing

## RESEARCH WORK

### Peer-Reviewed Journals

- **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.

### Research in Progress

- Can Sun and Yonghua Ji. Analyzing Software Anti-Piracy Strategies in a Competitive Environment.
- Yi Dong, Nan Hu, Yonghua Ji, Chenkai Ni, Jing Xie. Government Customers and Capital Market Reactions to Corporate Earnings, Under Review at *Production and Operations Management*
- Yonghua Ji, Subodha Kumar and Can Sun. Analyzing Healthcare Information Exchanges' Strategies in a Competitive Environment

### Refereed Conference proceedings

- 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

- “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 33 POM in Telecommunications.

### Review For

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

### **Editorial Boards**

*Production and Operations Management* (Senior Editor from 2014 - )  
*Information Technology and Management* (Ad Hoc Associate Editor)

### **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

## **AWARDS AND HONORS**

*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