

## De Liu

Professor, Information and Decision Sciences  
Xian Dong Eric Jing Professorship for Business Teaching  
Academic Director, Master of Science in Business Analytics  
Carlson School of Management  
University of Minnesota

321 19th Avenue South, 3-418  
Minneapolis, MN 55455

Phone: (612)626-4480  
Email: deliu@umn.edu

### ACADEMIC APPOINTMENTS

2020 - present	Professor & Xian Dong Eric Jing Professorship for Business Teaching, University of Minnesota
2017 - 2020	Associate Professor & 3M Fellow in Business Analytics, University of Minnesota
2014 - 2016	Associate Professor, University of Minnesota
2013 - 2014	Alan F. and Irene Bloomfield Associate Professor, University of Kentucky
2010 - 2013	Associate Professor, University of Kentucky
2004 - 2010	Assistant Professor, University of Kentucky
2004	Assistant Instructor, University of Texas at Austin

### EDUCATION

2000 - 2004	Ph.D. in Management Sci and Info Systems, University of Texas at Austin
1998 - 2000	M.S. in Management Science and Engineering, Tsinghua University
1994 - 1998	B.E. in Management Information Systems, Tsinghua University

### RESEARCH INTERESTS

Auctions and Mechanism Design, Gamification, Crowdfunding, AI and Augmented Intelligence, Social Media and Social Commerce.

### JOURNAL PUBLICATIONS

1. He Huang, Zhipeng Li, De Liu, and Hongyan Xu. Auctioning IT Contracts with Renegotiable Scope. *Management Science*, 2021
2. Zachary J. Sheffler, De Liu, and Shawn P Curley. Ingredients for successful badges: evidence from a field experiment in bike commuting. *European Journal of Information Systems*, 29(6):688–703, 2020
3. Zhihong Ke, De Liu, and Daniel J. Brass. Do Online Friends Bring Out the Best in Us? The Effect of Friend Contributions on Online Review Provision. *Information Systems Research*, 31(4):1322–1336, 2020
4. Liang Chen, Pei Xu, and De Liu. The Effect of Crowd Voting on Participation in Crowdsourcing Contests. *Journal of Management Information Systems*, 37(2):510–535, 2020
5. Juneyoung Park, De Liu, Mun Y. Yi, and Radhika Santhanam. GAMESIT: A Gamified System for Information Technology Training. *Computers and Education*, 142(December):1–19, 2019

6. Zhihong Ke, De Liu, Alok Gupta, and Daniel Joseph Brass. Assimilate or Differentiate? Contributors' Choice of Subjects in User-Generated Content. *Decision Sciences*, 51(5):1265–1287, 2019 (**Decision Science Best Paper Finalist**)
7. De Liu and Adib Bagh. Preserving Bidder Privacy in Assignment Auctions: Design and Measurement. *Management Science*, 66(7):3162–3182, jul 2020
8. Hong Guo, Xuying Zhao, Lin Hao, and De Liu. Economic Analysis of Reward Advertising. *Production and Operations Management*, 28(10):2413–2430, 2019
9. Pei Xu and De Liu. Product engagement and identity signaling: The role of likes in social commerce for fashion products. *Information and Management*, 56(2):143–154, 2019
10. Gordon Burtch, Yili Hong, and De Liu. The Role of Provision Points in Online Crowdfunding. *Journal of Management Information Systems*, 35(1):117–144, 2018
11. De Liu, Radhika Santhanam, and Jane Webster. Toward Meaningful Engagement: a Framework for Design and Research of Gamified Information Systems. *MIS Quarterly*, 41(4):1011–1034, 2017
12. Huaxia Rui, De Liu, and Andrew Whinston. Allocation and Pricing of Substitutable Goods: Theory and Algorithm. *Production and Operations Management*, 26(5):767–783, 2017
13. Liang Chen, Zihong Huang, and De Liu. Pure and hybrid crowds in crowdfunding markets. *Financial Innovation*, 2(1):1–19, 2016
14. Radhika Santhanam, De Liu, and Wei Cheng Milton Shen. Gamification of Technology-Mediated Training: Not All Competitions Are the Same. *Information Systems Research*, 27(23):453–465, 2016
15. De Liu, Daniel J. Brass, Yong Lu, and Dongyu Chen. Friendships in Online Peer-to-Peer Lending: Pipes, Prisms, and Relational Herding. *MIS Quarterly*, 39(3):729–742, 2015
16. De Liu and Siva Viswanathan. Information Asymmetry and Hybrid Advertising. *Journal of Marketing Research*, 51(5):609–624, 2014
17. Jun Li, De Liu, and Shulin Liu. Optimal keyword auctions for optimal user experiences. *Decision Support Systems*, 56(2013):450–461, 2013
18. De Liu, Xun Li, and Radhika Santhanam. Digital Games and Beyond: What Happens When Players Compete? *MIS Quarterly*, 37(1):111–124, 2013
19. Liu Shulin, Jun Li, and De Liu. Multi-attribute Procurement Auctions with Risk Averse Suppliers. *Economics Letters*, 115(3):408–411, 2012
20. De Liu, Jianqing Chen, and Andrew B. Whinston. Ex Ante Information and the Design of Keyword Auctions. *Information Systems Research*, 21(1):133–153, 2010
21. De Liu, Gautam Ray, and Andrew B. Whinston. The interaction between knowledge codification and knowledge-sharing networks. *Information Systems Research*, 21(4):892–906, 2010
22. Jianqing Chen, De Liu, and Andrew B Whinston. Auctioning Keywords in Online Search. *Journal of Marketing*, 73(4):125–141, 2009
23. Jiming Wu and De Liu. The Effects of Trust and Enjoyment on Intention to Play Online Games. *Journal of Electronic Commerce Research*, 8(2):128–140, 2007
24. De Liu, Xianjun Geng, and Andrew B Whinston. Optimal Design of Consumer Contests. *Journal of Marketing*, 71(4):140–155, 2007

25. De Liu and Jianqing Chen. Designing online auctions with past performance information. *Decision Support Systems*, 42(3):1307–1320, 2006
26. Guoqing Chen, Qiang Wei, De Liu, and Geert Wets. Simple association rules (SAR) and the SAR-based rule discovery. *Computers and Industrial Engineering*, 43(4):721–733, 2002

## WORKING PAPERS

1. Xinxue Qu, Hong Guo, Xuying Zhao, and De Liu. Push vs Pull: The Choice of Advertising Formats for Mobile Apps. *Working paper*, 2020
2. Yi Gao, Dengpan Liu, Hong Guo, Xuying Zhao, and De Liu. Microtasking in Self-Improvement Programs. *In Preparation for Submission to Management Science*, 2022
3. Zhihong Ke, De Liu, and Gediminas Adomavicius. Towards a Measure of Online Review Quality. *Revise and Resubmit at Information Systems Research*, 2020
4. Yiting Guo, Ximing Yin, De Liu, and Sean Xin Xu. Is This Bot A Her? Field Evidence Of Ai Chatbot Gender Effect In Debt Collection. *Under review at Information Systems Research*, 2021
5. Tao Li, De Liu, and Sean Xin Xu. Design Challenge Levels in E-Learning? Insights from a Large-Scale Field Experiment. *Working Paper*, 2020
6. Yumei He, Xincheng Xu, Ni Huang, Yili Hong, and De Liu. Preserving User Privacy Through Ephemeral Sharing Design: A Large-Scale Randomized Field Experiment in the Online Dating Context. *Under review at Information Systems Research*, 2021
7. Tao Li, De Liu, and Sean Xu. Re-engage Low Achievers: Effect of Meaningful Tangible Rewards in Gamified Online Learning. *Reject and Resubmit at Management Science*, 2020
8. Tao Li, Sean Xu, De Liu, and Yufang Wang. Should E-learning be Interleaved? Theory and Evidence from a Field Experiment. *Revise and Resubmit at MIS Quarterly*, 2020
9. Zihong Huang and De Liu. Economics of Social Media Fake Accounts. *In Preparation for Submission to Management Science*, 2020
10. Zhigang Cai, Jason Chan, Zihong Huang, and De Liu. Better to Give than to Receive? Impact of Donation Option on Reward-based Crowdfunding Campaigns. *Under 3rd revision at Information Systems Research*
11. Yash Babar, Shawn P. Curley, Zhihong Ke, De Liu, and Zachary J. Sheffler. The Effects of Digitally Delivered Nudges in a Corporate Wellness Program. *Under 3rd Revision at Journal of Association of Information Systems*, 2022
12. Yiting Guo, Yilin Li, De Liu, and Xin (Sean) Xu. Measuring Service Quality Based on Customer Emotion: An Explainable AI Approach. *Under review at Information Systems Research*, 2022
13. Xu Pei, Yiting Guo, and De Liu. Mobile Augmented Reality and Product Sales: Evidence from a Natural Experiment. *In Preparation for Submission to Information Systems Research*
14. He Huang, De Liu, Yu Tang, and Hongyan Xu. Competing in the Era of Supply Chain Transparency: A Tale of Information Disclosure and Supplier Switching. *In preparation for submission to Manufacturing and Service Operations Management*, 2022
15. Zhihong Ke, Huaxia Rui, De Liu, and Alok Gupta. Catch Me if You Can: Thwarting Strategic Evasion of Online Rating Manipulation Detection. *Reject and resubmit at Management Science*, 2022

## BOOK CHAPTERS

1. De Liu, Jianqing Chen, and Andrew B. Whinston. Current Issues in Keyword Auctions. In Gediminas Admavicius and Alok Gupta, editors, *Handbook of Information Systems: Business Computing*, pages 69–96. Emerald Group Publishing Limited, Bingley, UK, 2009
2. De Liu, Xianjun Geng, and Andrew B. Whinston. Status Seeking and the Design of Online Entertainment Communities. In Apte Uday and Uday Karmarkar, editors, *Managing in the Information Economy: Current Research Issues*, pages 281–304. Springer, 2007
3. Anjana Susarla, De Liu, and Andrew B. Whinston. Peer-to-peer knowledge management. In Clyde W. Holsapple, editor, *Handbook on Knowledge Management*, volume 2, pages 129–139. Springer, Berlin, 2003

## CONFERENCE PAPERS & PRESENTATIONS

1. He Huang, De Liu, Yu Tang, and Hongyan Xu. Competing in the Era of Supply Chain Transparency: A Tale of Information Disclosure and Supplier Switching. In *Production and Operations Management Society (POMS) Annual Conference*, Virtual, 2021
2. Yumei He, Xincheng Xu, Ni Huang, Yili Hong, and De Liu. Preserving User Privacy Through Ephemeral Sharing Design: A Large-Scale Randomized Field Experiment in the Online Dating Context. In *China Summer Workshop on Information Management (CSWIM)*, Virtual, 2021
3. Yumei He, Xincheng Xu, Ni Huang, Yili Hong, and De Liu. Preserving User Privacy Through Ephemeral Sharing Design: A Large-Scale Randomized Field Experiment in the Online Dating Context. In *International Conference on Information Systems (ICIS)*, Virtual, 2021 (**Best Paper In Track - IS Design, Development, and Project Management**)
4. Yi Gao, Dengpan Liu, Hong Guo, Xuying Zhao, and De Liu. Present Bias and Microtasking. In *International Conference on Information Systems (ICIS)*, Virtual, 2021
5. Yiting Guo, Ximing Yin, De Liu, and Sean Xin Xu. Effect of AI Chatbots’ Gender in the Business Context: Empirical Evidence from Debt Collection. In *Academy of Management Conference (AOM)*, Virtual, 2021
6. Yiting Guo, Ximing Yin, De Liu, and Sean Xin Xu. Effect of AI Chatbots’ Gender in the Business Context: Empirical Evidence from Debt Collection. In *Conference on Information Systems and Technology (CIST)*, Virtual, 2021
7. Xinxue Qu, Xuying Zhao, Hong Guo, and De Liu. Economic Analysis of Advertising Mechanisms in Mobile Apps Design. In *POMS Annual Conference*, Virtual, 2021
8. Zihong Huang, Xuan Bi, and De Liu. AI-empowered Venture Capital (VC): The Impact of AI Adoption on VC Firms’ Success. In *Conference on Information Systems and Technology (CIST)*, Virtual, 2021
9. Zihong Huang and De Liu. Economics of Social Media Fake Accounts. In *Workshop on Information Systems and Economics (WISE)*, 2020. (**Best Student Paper nomination**)
10. Yumei He, Xincheng Xu, Ni Huang, Yili Hong, and De Liu. Preserving User Privacy Through Ephemeral Sharing Design: A Large-Scale Randomized Field Experiment in the Online Dating Context. In *Workshop on Information Systems and Economics (WISE)*, 2020
11. Yumei He, Xincheng Xu, Ni Huang, Yili Hong, and De Liu. Ephemeral Sharing in Online Dating: A Randomized Field Experiment. In *Conference on Digital Experimentation (CODE)*, 2020

12. Zihong Huang, Xuan Bi, and De Liu. AI-empowered Venture Capital (VC): The Impact of AI Adoption on VC Firms' Success. In *Workshop on E-Business (WeB)*, 2020
13. Agnes Yang, De Liu, and Radhika Santhnam. The Impact of Role Coordination on Virtual Team Performance and Player Retention in Esports. In *19th Workshop on e-Business (WeB)*, 2020. (**Best Student Paper nomination**)
14. Yiting Guo, Ximing Yin, De Liu, and Sean Xin Xu. "She is not just a computer": Gender Role of AI Chatbots in Debt Collection. In *International Conference in Information Systems (ICIS)*, India, 2020
15. Tao Li, De Liu, and Sean Xin Xu. Design Challenge Levels in E-Learning? Insights from a Large-Scale Field Experiment. In *International Conference in Information Systems (ICIS)*, India (Best Paper, 2020. (**Best Student Paper in Track** - Digital Learning Environments and Future IS Curricula)
16. Zihong Huang and De Liu. Economics of Social Media Fake Accounts. In *2nd China Workshop on Economics of Information Systems Theory (CWEIST)*, Chongqing, 2020
17. He Huang, De Liu, Yu Tang, and Hongyan Xu. Competing in the Era of Supply Chain Transparency: A Tale of Information Disclosure and Supplier Switching. In *Theory of Economics in Information Systems (TEIS) Workshop*, Newport Beach, California, 2020
18. He Huang, De Liu, Sammi Tang, and Hongyan Xu. Competing in the Era of Supply Chain Transparency: Information Disclosure and Supplier Switching. In *POMS Annual Conference*, Minneapolis, MN, 2020
19. Xinxue Qu, Xuying Zhao, Hong Guo, and De Liu. Economic Analysis of Advertising Mechanisms in Mobile Apps Design. In *POMS Annual Conference*, Minneapolis, MN, 2020
20. Tao Li, De Liu, and Xin (Sean) Xu. The Role of Optimal Challenge in Adaptive E-learning: Evidence from Field Experiments with Middle School Students. In *Conference on Design and Analysis of Experiment*, Knoxville, TN, 2019
21. Tao Li, De Liu, and Xin (Sean) Xu. Re-engaging underachievers: toward a participation internalization approach to gamified online learning design. In *Winter Conference on Business Analytics*, Snowbird, Utah, 2020
22. Yiting Guo, Yilin Li, De Liu, and Xin (Sean) Xu. Infer Service Quality Problems from Sequential Patterns of Customer Emotions. In *Winter Conference on Business Analytics*, Snowbird, Utah, 2020
23. Tao Li, De Liu, and Sean Xu. Does it Pay to Manage Challenge Levels in E-Learning? Insights from Designing and Analyzing a Large-Scale Field Experiment. In *Winter Conference on Business Analytics*, Snowbird, Utah, 2020
24. Tao Li, De Liu, and Xin Xu. Re-engaging underachievers: toward a participation internalization approach to gamified online learning design. In *ICIS 2019 Proceedings*, Munich, Germany, 2019
25. Zachary J Sheffler, Shawn Curley, and De Liu. Do We Need Different Levels of Badges for Users with Different Participation Levels? A Field Experiment from a Bicycle Commuting Program. In *ICIS 2019 Proceedings*, Munich, Germany, 2019
26. He Huang, De Liu, Yu Tang, and Hongyan Xu. Competing in the Era of Supply Chain Transparency: A Tale of Information Disclosure and Supplier Switching. In *China Workshop on Economics of Information Systems Theory (CWEIST)*, Xi'an, China, 2019
27. Zhihong Ke, De Liu, and Gediminas Adomavicius. Are "Helpful" Online Reviews High Quality? An Examination of Online Review Quality and Its Relationship with Helpfulness Votes. In *China Summer Workshop on Information Management*, Shenzhen, China, 2019

28. Pei Xu and De Liu. Mobile Augmented Reality, Product Sales and Online Consumer Reviews: Evidence from a Natural Experiment. In *China Summer Workshop on Information Management*, Shenzhen, China, 2019
29. Yiting Guo, Yilin Li, De Liu, and Xin Xu. Are Callers in a Mode? An Emotion Detection Approach to Call Center Service Quality. In *Winter Conference on Business Analytics*, Snowbird, Utah, 2019
30. Tao Li, Xun Xin, De Liu, and Yufang Wang. Interleaved Learning: A Design Science Approach and Field Experiment. In *ICIS 2018 Proceedings*, San Francisco, CA, 2018
31. Hong Guo, Xuying Zhao, Lin Hao, and De Liu. Economic Analysis of Reward Advertising. In *Smart Data Pricing Workshop*, Minneapolis, MN, 2018
32. De Liu, Liang Chen, and Pei Xu. Why Crowd Pick Different Winners from Experts. In *Data Science for Business and Economics Conference*, West Lafayette, IN, 2018
33. Pei Xu, De Liu, and Joonghee Lee. Mobile Augmented Reality, Product Sales, and Consumer Evaluations: Evidence from a Natural Experiment. In *ICIS 2018 Proceedings*, San Francisco, CA, 2018
34. Huaxia Rui, De Liu, and Andrew Whinston. Allocation and Pricing of Substitutable Goods: Theory and Algorithms. In *Theory of Economics in Information Systems (TEIS) Workshop*, San Diego, CA, 2018
35. Hong Guo, Xuying Zhao, Lin Hao, and De Liu. Economic Analysis of Reward Advertising. *Workshop on Economics of Information Systems (WISE)*, 28(10):2413–2430, 2019
36. Zhigang Cai, Jason Chan, and De Liu. Better to Give Than to Receive: Impacts of Donation-Based Contribution Schemes on Crowdfunding Outcomes. In *Workshop on Economics of Information Systems (WISE)*, Seoul, South Korea, 2017
37. Zhigang Cai, Jason Cha, and De Liu. Better to Give Than to Receive: Impacts of Donation-Based Contribution Schemes on Crowdfunding Outcomes. In *China Summer Workshop on Information Management (CSWIM)*, Nanjing, China, 2017
38. Yumei He, Xunhua Guo, and De Liu. Is Beauty Helpful? Reviewer Attractiveness And Review Helpfulness. In *Americas Conference on Information Systems*, Boston, MA, 2017
39. Zhihong Ke, De Liu, and Alok Gupta. Peer Effects and the Production of Online Reviews. In *Conference on Information Systems and Technology (CIST)*, Nashville, TN, 2016
40. Zhihong Ke, De Liu, and Alok Gupta. The Ebb and Flow of Online Word of Mouth. In *International Conference on Information Systems (ICIS)*, Dublin, Ireland, 2016
41. De Liu and Adib Bagh. New Privacy-Preserving Ascending Auction for Assignment Problems. In *Workshop of Information Technologies and Systems (WITS)*, Dallas, TX, 2015 (**Best Paper Award Nomination**)
42. Pei Xu and De Liu. Product Popularity and Identity Signaling on Social Shopping Platforms. In *INFORMS Annual Meetings*, Philadelphia, PA, 2015
43. Zhihong Ke and De Liu. Peer Effects and the Production of Online Reviews: A Message Level Analysis. In *ICIS 2015 Proceeding*, Dallas, TX, 2015
44. Liang Chen, Pei Xu, and De Liu. Experts versus the Crowd : A Comparison of Selection Mechanisms in Crowdsourcing Contests. In *Workshop on Information System Economics*, Auckland, Australia, 2014

45. Juan Ling, Ajay Mehra, Dan Brass, De Liu, and Steve Borgatti. Coalitions of the mind: Gender, social networks and knowledge production. In *Southern Management Association Meeting*, Savannah, Georgia, 2014 (**Best Paper in Track**)
46. Liang Chen, Pei Xu, and De Liu. Experts versus the Crowd: A Comparison of Selection Mechanisms in Crowdsourcing Contests. In *INFORMS Annual Meetings*, San Francisco, California, 2014
47. Zhihong Ke and De Liu. The role of social networks in online reviewing. In *The 18th Pacific Asia Conference on Information Systems*, Chengdu, China, 2014
48. Pei Xu and De Liu. Social Shopping: The Value of Social Endorsement. In *Statistical Challenges in Ecommerce Research (SCECR)*, Tel Aviv, Israel, 2014
49. De Liu, Mun Yi, Janeyoung Park, and Radhika Santhanam. GAMESIT - A Gaming Shell for Information Technology Skill Development – A Design Science Program. In *WITS Prototype*, Milan, Italy, 2013
50. De Liu and Sun Yang. A Truthful Mechanism for Multi-slot Ad Scheduling with Budget Constraints. In *INFORMS Annual Meetings*, Minneapolis, MN, 2013
51. De Liu and Adib Bagh. A Simple Ascending Auction for Assignment Problems. In *INFORMS Annual Meetings*, Minneapolis, MN, 2013
52. Liang Chen, Pei Xu, and De Liu. Experts versus the Crowd: A Comparison of Rating Mechanisms for Crowdsourcing Platforms. In *China Summer Workshop on Information Management (CSWIM)*, Tianjin, China, 2013
53. De Liu, Yong Lu, and Daniel J Brass. The Prism Effects of Friendships in Online Peer-to-Peer Lending. In *The Fifth Symposium on Financial Intelligence and Risk Management and the Sixth International Workshop of Electronic Payment and Electronic Commerce*, Chengdu, China, 2013
54. De Liu and Adib Bagh. A Simple Ascending Auction for Assignment Problems. In *Fall 2012 Midwest Economics Theory Meeting*, St. Louis, MO, 2012
55. De Liu and Siva Viswanathan. Information Asymmetry and Hybrid Advertising. In *INFORMS Annual Meetings*, Phoenix, AZ, 2012
56. Huaxia Rui, De Liu, and Andrew B. Whinston. Optimal Allocation for Display Advertising. In *Informis Annual Meetings*, Phoenix, AZ, 2012
57. De Liu, Yong Lu, Pei Xu, and Zhexiang Sheng. The Value of Friendship Ties in Online Peer-to-Peer Lending. In *Statistical Challenges in Ecommerce Research (SCECR)*, Montreal, Canada, 2012
58. De Liu and Siva Viswanathan. Information Asymmetry and Hybrid Advertising. In *Theory in Economics of Information Systems (TEIS) Workshop*, Laguna Beach, CA, 2012
59. Liang Chen and De Liu. Comparing Strategies for Winning Expert-rated and Crowd-rated Crowdsourcing Contests: An Exploratory Study. In *Americas Conference on Information Systems (AMCIS)*, Seattle, WA, 2012
60. Huaxia Rui, De Liu, and Andy Whinston. Optimal Allocation for Internet Display Advertising. In *1st Midwest Workshop on Control and Game Theory*, Champaign, IL, 2012
61. Huaxia Rui, De Liu, and Andrew B. Whinston. Optimal Allocation for Display Advertising. In *Workshop on Information System Economics*, Shanghai, China, 2011

62. De Liu and Siva Viswanathan. Information Asymmetry and Hybrid Advertising. In *International Workshop on Data Mining and Audience Intelligence for Online Advertising*, volume 51, pages 609–624, San Diego, CA, 2011
63. Skaggs Bruce, Alfred Boccia, De Liu, and Peter Mills. Comparing Internal Markets and Hierarchy in the Coordination of Knowledge: A Simulation Analysis. In *Academy of Management Meetings*, San Antonio, TX, 2011
64. Jun Li, De Liu, and Shulin Liu. Optimal Keyword Auctions with Costly Positions. In *Midwest Economic Theory Meeting*, Notre Dame, IN, 2011
65. Huaxia Rui, De Liu, and Andrew B. Whinston. Optimal Allocation for Display Advertising. In *International Workshop on Data Mining and Audience Intelligence for Online Advertising*. San Diego, CA, 2011
66. De Liu and Siva Viswanathan. Information Asymmetry and Hybrid Advertising. In *UCLA Algorithmic Game Theory Workshop*, Los Angeles, CA, 2011
67. De Liu and Siva Viswanathan. Information Asymmetry and Payment Schemes In Online Advertising. In *China Summer Workshop on Information Management*, Wuhan, China, 2010 (**Best Paper Award Nomination**)
68. Juan Ling, Ajay Mehra, Dan Brass, De Liu, and Steve Borgatti. The Time-Contingent Value of Social Capital: Structural Holes, Resources Richness, and Knowledge Production. In *Academy of Management Conference*, Chicago, IL, 2009
69. De Liu, Gautam Ray, and Andrew B. Whinston. The Interaction between Knowledge Codification and Knowledge Sharing Networks. In *INFORMS Conference on Information Systems and Technology*, Washington, D.C., 2008
70. De Liu, Jianqing Chen, and Andrew B. Whinston. Competing Keyword Auctions. In *Workshop on Advertising Auctions*, Chicago, IL, 2008
71. De Liu, Jianqing Chen, and Andrew B. Whinston. Competing Keyword Auctions. In *China Summer Workshop on Information Management*, Shanghai, China, 2007
72. De Liu, Xun Li, and Radhika Santhanam. What makes Game Players Want to Play More? A Mathematical and Behavioral Understanding of Online Game Design. In *Human Computer Interface International Conference*, Beijing, China, 2007
73. De Liu and Jianqing Chen. Competing Keyword Auctions. In *Workshop on Information Systems and Economics*, Montreal, Canada, 2007
74. De Liu, Jianqing Chen, and Andrew B. Whinston. Competing Keyword Auctions. In *Conference on Information Systems and Technology (CIST)*, Seattle, WA, 2007 (**Best Paper Award**)
75. Jianqing Chen, De Liu, and Andrew B. Whinston. Resource packaging in keyword auctions. In *Proceedings of the 27th International Conference on Information Systems*, pages 1999–2013, Milwaukee, WI, 2007
76. De Liu, Jianqing Chen, and Andrew B Whinston. Weighted Unit-Price Auctions. In *Workshop on Sponsored Search Auctions*, Ann Arbor, MI, 2006
77. De Liu, Jianqing Chen, and Andrew B. Whinston. Weighted Unit-Price Auctions as Keyword Auctions. In *Workshop on Information Systems and Economics*, Milwaukee, WI, 2006



78. Jianqing Chen, De Liu, and Andrew B Whinston. Designing Share Structure in Auctions of Divisible Goods. In *Workshop on Sponsored Search Auctions*, Vancouver, BC, Canada, 2005
79. Andrew B. Whinston, Matt Hämäläinen, De Liu, and Xianjun Geng. Interactive Digital Entertainment: A New Direction for IS research. In *International Conference of Information Systems (ICIS)*, Las Vegas, NV, 2005
80. De Liu, Jianqing Chen, and Andrew B. Whinston. Designing Online Auctions with Past Performance Information. In *Workshop on Information Systems and Economics*, Washington, D.C., 2004
81. De Liu and Andrew B. Whinston. An all-pay auction model of contest promotions and its testing using wireless gaming data. In *Big XII Information Systems Research Symposium*, Stillwater, OK, 2003
82. Guoqing Chen, De Liu, and Jiexun Li. Influence and conditional influence-new interestingness measures in association rule mining. In *2001 IEEE International Fuzzy Systems Conference*, Melbourne, Vic., Australia, 2001
83. De Liu and Guoqing Chen. Association Rule Mining Based on a Simple Rule Set. In *IFIP World Computer Congress*, Beijing, China, 2000

## INVITED PRESENTATIONS

Is Bragging Motivating? The Effect of Bragging on User Engagement and Consumption in Mobile Gaming. *Chongqing University (2021)*

Economics of Fake Social Media Accounts. *University of Rochester (2021), Chongqing University (2021)*

Re-engage low achievers: Effect of meaningful extrinsic rewards in gamified online learning. *Arizona State University (2020)*

Mobile Augmented Reality and Product Sales: Evidence from a Natural Experiment. *Temple University (2019)*

Are “Helpful” Online Reviews High Quality? An Examination of Online Review Quality and Its Relationship with Helpfulness Votes: *Tsinghua University (2019)*

Economic Analysis of Reward Advertising: *Chongqing University (2018)*

Better to Give than to Receive: Impact of Donation-Based Contribution Scheme on Crowdfunding Outcomes of Reward-based Campaigns: *Nanyang Technological University (2018), Beijing Institute of Technology (2018)*

Dynamic Ascending Clock Auction for Privacy-Preserving Assignment: *University of International Business and Economics (2017), Chongqing University(2017), University of Minnesota (Industrial Engineering)*

Experts versus the Crowd: A Comparison of Selection Mechanisms in Crowdsourcing Contests: *McMaster (2015), UT Austin(2015), Renmin University (2016), Beijing University (2017), Emory University (2019)*

Do Online Social Network Friends Make You Write More and Better Reviewers: *Utah (2017), Renmin University (2017), Jiangsu University of Science and Technology (2017), National University of Singapore (2018), Tsinghua University (2018)*

Gamification of Technology-Mediated Training: *KAIST (2013)*

Friendships in Online Peer-to-Peer Lending: Pipes, Prisms, and Relational Herding: *George Washington University (2013), RPI (2013), Indiana University (2013), University of Texas at Dallas (2013), Minnesota (2014), University of Oklahoma (2015), University of Minnesota CS department (2016)*

Allocation and Pricing of Substitutable Goods: Theory and Algorithms: *University of Texas at Austin (2011), Baidu Inc. (2011), Tsinghua University (2011), Shanghai University of Finance and Economics (2011), Purdue University (2012)*

Information Asymmetry and Hybrid Advertising: *University of Texas at Austin (2011), University of Minnesota (2011), University of International Business and Economics (2010), Tsinghua University (2010), Southwestern University of Finance and Economics (2010)*

Auctioning Keywords in Online Search: *Baidu Inc. (2010), University of Texas at Austin (2010), University of Kentucky Economics Seminar (2007), UIUC (2006), University of International Business and Economics (2006), Tsinghua University (2006)*

Ex-ante Information and the Design of Keyword Auctions: *Purdue University (2009), University of Maryland (2009), Baidu Inc. (2008), University of Kentucky Computer Science Seminar (2008)*

Digital games and beyond: what happens when players compete?: *University of New Mexico (2010), KAIST (2013)*

Design Online Auctions with Past Performance Information: *University of Kentucky Economics Seminar (2005), University of International Business and Economics (2005), Tsinghua University (2005)*

The Interaction between Knowledge Codification and Knowledge Sharing Networks: *University of Kentucky Management Seminar (2007), Boston University (2006), Georgia Tech (2006)*

Optimal Design of Consumer Contests: *HKUST (2004), University Of Kentucky (2004)*

## TEACHING

### University of Minnesota

2014 - 2021	MSBA 6330: (MSBA) Big Data Analytics
2016 - 2021	IDSC 8541: (PhD) Introduction to Economics of Information Systems
2017 - 2020	Business Analytics for Leaders (Exec Ed)
2018	IDSC 3103: Data Modeling and Databases
2016 - 2019	(MSBA) Carlson Analytics Lab Projects, Faculty Advisor
2015	IDSC 6444: (MBA) Business Intelligence
2014 - 2015	MSBA 6320: (MSBA) Data Management, Database, and Data Warehousing

### University of Kentucky

2013	MBA 606: (MBA) Management Information Systems
2011	DIS 790: (Ph.D.) Economics of Electronic Commerce
2005 - present	AN 450G: Analytics Technologies
2004 - present	AN 306: Analytics Models and Methods
2008 - present	AN 324: Database Management
2010 - 2012	ACC 324: Accounting Information Systems
2009	AN 320: Information Systems in the Modern Enterprise
2006 - 2007	AN 300: Quantitative Analysis in Operations Management
2005 - present	AN 395: Independent Studies on Decision Science and Information Systems

### University of Texas at Austin

2004	MIS 304: Business Programming using VB.net
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## STUDENTS AND ADVISING

### Ph.D. Students Supervision

2013 - 2019	Zhihong Ke, Advisor (Clemson University, 2019)
2011 - 2014	Pei Xu, Advisor (Auburn University, 2014)
2013 - 2015	Matt Spradling (CS), Committee Member (University of Michigan-Flint, 2015)
2005 - 2006	Dan Davenport, Committee Member (University of Kentucky, 2006)

### Visiting Doctoral and Postdoctoral Students

2019 - 2021	Yumei He (Postdoctoral, Tsinghua Univ)
2019 - 2020	Yiting Guo (Tsinghua Univ)
2019 - 2020	Tao Li (Tsinghua Univ)
2016 - 2017	Yumei He (Tsinghua Univ)
2015 - 2016	Zhigang Cai (Shanghai Jiaotong Univ)
2014 - 2015	Dongfeng Liu (University of International Business and Economics)

### Masters & Undergraduates

2019	Haoda Chu, MS in Data Science Capstone Final Examination Committee
2018	Liyao Lu, MS in Data Science Capstone Final Examination Committee
2018	Dhruv M. Dhokalia, MS in Data Science Capstone Final Examination Committee
2017	Wei Chen, MS in Data Science Capstone Final Examination Committee
2017	Rohan Sadale, MS in Data Science Capstone Final Examination Committee

2017	Gaurav Khandelwal, MS in Data Science Capstone Final Examination Committee
2017	Michael Justice, MS in Data Science Capstone Final Examination Committee
2016	Zhiyi Li, MS in Computer Science Final Examination Committee
2014 - 2015	Hannah Stephan, undergraduate honor thesis

## SERVICES

### Professional Services - Editorial Appointments

Associate Editor	<i>Information Systems Research</i> , 2012 - 2021
Associate Editor	<i>Journal of Organizational Computing and Electronic Commerce</i> , 2010 - present
Guest Associate Editor	<i>MIS Quarterly</i> (2011,2019)
Special Issue Guest Editor	<i>Decision Support Systems</i> (2012)

### Professional Services - Conferences and Other

2021	External Tenure and Promotion Letter Writer (3 Cases)
2021	Co-chair for China Workshop on Economics of Information Systems Theory (CWEIST)
2021	Program Co-chair, China Summer Workshop on Information Systems and Management (CSWIM)
2020	External Tenure and Promotion Letter Writer (3 Cases)
2020	Track Co-chair, ICIS 2020
2020	Co-chair China Workshop on Economics of Information Systems Theory (CWEIST)
2019	Co-chair and co-founder of China Workshop on Economics of Information Systems Theory (CWEIST)
2019 - present	Program Committee, WITS (2019, 2020, 2021)
2009 - present	Associate Editor, ICIS (2009, 2011, 2013,...)
2008 - present	Program Committee, CIST (2008, 2010, 2011,...)
2006 - present	Session Chair, INFORMS Annual Conference (2006, 2008, 2009, 2013)
2005 - present	Ad hoc reviewer, various conferences including ICIS, HICSS, WeB, ACM E-Commerce, AMCIS, CIST, and CSWIM
2007 - present	Program Committee, China Summer Workshop on Information Management
2018	Program Committee, Human Computer Interfaces
2014	Workshop Co-chair, Tenth Ad Auctions Workshop
2014	Track Co-chair, ICEC
2014	Track Co-chair, PACIS
2014	Session Chair, POMS
2009	Program Committee, International Conference on E-Commerce

## GRANTS

2018-2019	Co-Investigator, University of Minnesota NOTIO Grant, <b>\$30,000</b>
2016 - 2017	Dean's Small Grant on Badges and Motivation Crowding, <b>\$5000</b>
2016 - 2019	Co-investigator, Natural Science Foundation of China Grant on "Equilibrium Analysis of Keyword Auctions: Advertiser's Perspective", No. 71171052. <b>\$76,700</b>
2015	PI, SOBACO Micro-grants for "Viral Gamification Design for Mobile Wellness Applications", <b>\$5000</b>
2011 - 2014	Co-investigator, Natural Science Foundation of China Grant on "Theory and Applications of Keyword Auctions", No. 71171052. <b>\$78,200</b>
2012	Gatton College Entrepreneurship Research Grant, <b>\$20,000</b>
2011	Gatton College Entrepreneurship Research Grant, <b>\$10,000</b>
2005 - 2010	Gatton College Summer Research Grant, University of Kentucky, <b>\$10,000</b>

## AWARDS AND RECOGNITION

2021	<b>Best Paper Finalist</b> , Decision Science Journal
2021	<b>Best Paper In Track</b> , International Conference on Information Systems (ICIS)
2021	<b>Teacher of the Year</b> , Master of Applied Business Analytics (MABA)
2020	<b>Outstanding Research Award</b> , Carlson School
2020 - present	<b>Xian Dong Eric Jing Professorship for Business Teaching</b> , Carlson School
2019	<b>Outstanding Service Award</b> , Carlson School
2019	<b>AHRQ Step Up App Challenge Grand Prize \$40,000</b> (PRISM: PROMIS Reporting Insight System from Minnesota), AHRQ
2017 - 2020	<b>3M Fellow in Business Analytics</b> , Carlson School
2015	<b>Best Paper Nomination</b> , Workshop on Information Technologies and Systems (WITS)
2019	<b>Outstanding Service Award</b> , Carlson School
2018	<b>Outstanding Teaching Award</b> , Carlson School
2016	<b>Teacher of the Year</b> , Master of Science in Business Analytics
2015	<b>Teacher of the Year</b> , Master of Science in Business Analytics
2014	<b>Associate Editor of the Year Award</b> by Information Systems Society and Information Systems Research
2014	<b>Best Paper Award</b> , Southern Management Association Meeting (SMAM)
2013 - 2014	<b>Alan F. and Irene Bloomfield Professorship</b> , University of Kentucky Gatton College of Business
2012	<b>Professor of the Month</b> , Alpha Kappa Psi professional business fraternity

2011	<b>Best Reviewer Award</b> , Information Systems Research
2010	<b>Best Paper nomination</b> , China Summer Workshop on Information Management (CSWIM)
2007	<b>Best Paper award</b> , China Summer Workshop on Information Management (CSWIM)
2001 - 2004	<b>Graduate Research Fellowship</b> , University of Texas at Austin
2000	<b>Honored Graduate (top 1%)</b> , Tsinghua University
1999	<b>Academy of Science Fellowship</b> , Tsinghua University
1998	<b>Outstanding Undergraduate Student Scholarship</b> , Tsinghua University
1997	<b>Outstanding Undergraduate Student Scholarship</b> , Tsinghua University
1996	<b>HSBC Scholarship</b> , Tsinghua University
1995	<b>Jiang Nan-Xiang Scholarship</b> , Tsinghua University
1994	<b>Outstanding Freshman Fellowship (1st class)</b> , Tsinghua University

## MEDIA MENTIONS

2019/3	Star Tribune, McKnight's Long-Term Care News, PR Newswire, Politico (and 18 other outlets)
2019/1	Master in Management Guide
2018/3	MentorStudents.org
2017/7	Star Tribune