

NING NAN
Associate Professor

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PRIMARY RESEARCH INTERESTS

- Digital business strategy
- Evolvable IT infrastructure
- Blockchain governance
- Complex adaptive systems
- Multi-agent modeling

EDUCATION

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| <i>Ph.D.</i> Business Information Technology
Ross School of Business, University of Michigan | 2006 |
| <i>M. A.</i> Mass Communication (minor in Computer Science)
School of Journalism and Mass Communication, University of Minnesota | 2002 |
| <i>B. A.</i> Advertising
Peking (Beijing) University | 1999 |

JOURNAL PUBLICATION

1. T. Sturm, J. Gerlach, L. Pumplun, N. Mesbah, F. Peters, C. Tauchert, N. Nan, and P. Buxmann. Coordinating Human and Machine Learning for Effective Organizational Learning, *MIS Quarterly*, 45, 3. 2021.
2. K. Sherif, N. Nan, and J. Brice. Career success in academia. *Career Development International*, 25, 6. 2020.
3. H. Benbya, N. Nan, H. Tanriverdi, and Y. Yoo, Complexity and Information Systems Research in the Emerging Digital World, *MIS Quarterly*, 44, 1, 2020, pp. 1-17.
4. N. Nan and H. Tanriverdi, Unifying the Role of IT in Hyperturbulence and Competitive Advantage via a Multilevel Perspective of IS Strategy, *MIS Quarterly*, 2017, 41, 3, 937-958.

5. A. Espinosa, N. Nan and E. Carmel, Temporal Distance, Communication Patterns and Task Performance in Teams, *Journal of Management Information Systems*, 32, 1, 2015, pp. 151-191.
6. N. Nan and Y. Lu. Harnessing the Power of Self-Organization in Online Community during Organizational Crisis. *MIS Quarterly*, 38, 4, 2014, pp. 1135-1157.
7. N. Nan R. Zmud, And E. Yetgin. A Complex Adaptive Systems Model of Innovation Diffusion: Theoretical Integration and Validation of a Virtual Laboratory. *Computational and Mathematical Organization Theory*, 20, 2014, pp. 52-88.
8. N. Nan and S. Kumar. Joint Effect of Team Structure and Software Architecture in Open Source Software, *IEEE Transactions on Engineering Management*, 60, 3, 2013, pp. 592 - 603.
9. Cheshin, Y. Kim, N.D. Bos, N. Nan, and J.S. Olson. Emergence of Differing Electronic Communication Norms within Partially Distributed Teams, *Journal of Personnel Psychology*, 12, 1, 2013, pp. 7-21.
10. N. Nan. Capturing Bottom-Up IT Use Processes: A Complex Adaptive Systems Model, *MIS Quarterly*, 35, 2, 2011, pp. 505-532.
11. E.W. Johnston, D. Hicks, N. Nan, and J.C. Auer. Managing the Inclusion Process in Collaborative Governance, *Journal of Public Administration Research and Theory*, 21, 4, 2011, pp. 699-721.
12. N. Nan and D. Harter. Impact of Schedule and Budget Pressure on Software Development Cycle Time and Effort. *IEEE Transactions on Software Engineering*, 35, 5, 2009, pp. 624-637.
13. N. Nan and E.W. Johnston. Using multi-agent simulation to explore the contribution of facilitation to GSS transition. *Journal of the Association for Information Systems*, 10, 3, 2009, Article 2.
14. E.W. Johnston, N. Nan, D. Hicks, and W. Zhong. Between implementation and outcomes, growth matters: Validating an agent-based modeling approach for understanding collaboration process management. *The Innovation Journal*. 13, 3, article 7.
15. N.D. Bos, J.S. Olson, N. Nan, and A. Cheshin. Subgroup biases in partially distributed collaboration. *Journal of Information Technology Research*. 2, 1 pp. 1-8.
16. N. Nan. 2008. A Principal-Agent Model for Incentive Design in Knowledge Sharing. *Journal of Knowledge Management*, 12, 3, pp.101-113.

17. N. Nan, E.W. Johnston and J.S. Olson. 2008. Unintended Consequences in Central-Remote Office Arrangement: A Study Coupling Laboratory Experiment with Multi-Agent Simulation. *Computational and Mathematical Organization Theory*, 14, 2, pp. 57-83.

BOOK CHAPTER

F. Wan, N. Nan, and M. Smith, A Congruency Effect of Web Atmospheric Design and Consumers' Surfing Goal: The Role of Consumers' Optimal Experience in Branding of E-tailers, in *Contemporary Research in eBranding*, Ed. Subir Bandyopadhyay, Garry, Indiana: Idea Group Inc.

GRANT

Principal investigator, "Design without Final Goals: Fractal-based Design Principles for IT Infrastructure," funded by the Insight Grant of Social Sciences and Humanities Research Council (SSHRC) Canada, 2017-2023, total amount \$129,160.

REFERRED CONFERENCE PROCEEDINGS

J.A. Espinosa, N. Nan, and E. Carmel. Temporal Distance, Synchronicity and Team Performance. *Academy of Management Annual Meeting Best Paper Proceedings*, 2012 (Won the Best Conference Presentation Paper Award).

N. Nan and Y. Yoo. Social Construction of User Beliefs of Collaborative Technology: A Multi-Method Approach. *Proceedings of International Conference on Information Systems (ICIS)*, December 2010, paper 118.

N. Nan, J.A. Espinosa, and E. Carmel. Communication and Performance across Time Zones: A Laboratory Experiment. *Proceedings of International Conference on Information Systems (ICIS)*, December 2009, paper 107.

N. Nan, S. Kumar and L. Wang. The Collaboration Network Structure in Open Source Projects. *Proceedings of the Sixth Annual Symposium on Research in Systems Analysis & Design*, Tulsa, Oklahoma, May 2007.

N. Bos, J. Olson, N. Nan, N. Shami, S. Hock and E. Johnston. Collocation Blindness In Partially Distributed Groups: Is There A Downside To Being Collocated? *Proceedings of the SIGCHI conference on Human Factors in computing systems*, April 2006, Montréal, Québec, Canada.

N. Nan, N. Bos, Y. Kim, A. Cheshin, J. S. Olson. Impact of Personnel Rotation on Performance of Distributed Teams: An Experimental Study. *Proceedings of the Eleventh Americas Conference on Information Systems*, August 2005, Omaha, NE.

N. Nan, E. W. Johnston, J. S. Olson and N. Bos. Beyond Being in the Lab: Using Multi-Agent Modeling to Isolate Competing Hypotheses. *CHI Late Breaking Result Papers*, April 2005, Portland.

N. Bos, J. S. Olson, A. Cheshin, Y. Kim, N. Nan and N. Sadat Shami. Traveling Blues: The Effect of Relocation on Partially Distributed Teams. *CHI Late Breaking Result Papers*, April 2005, Portland.

N. Bos, N. Sadat Shami, J. S. Olson, A. Cheshin and N. Nan. In-group/Out-group Effects in Distributed Teams: An Experimental Simulation. *Computer Supported Cooperative Work Conference Proceedings*, November 2004, Chicago.

F. Wan, N. Nan and M. Smith. Consumers' Optimal Experience on Commercial Web Sites: A Congruency Effect of Web Atmospheric Design and Consumers' Surfing Goal. *Conference Materials of eBRF* (Frontiers of e-Business Research) (September 2004, Tampere, Finland). Nominated for Best Conference Paper Award.

N. Nan, D. Harter and T. Thomas. The Impact of Schedule Pressure on Software Development: A Behavioral Perspective. *Proceedings of International Conference on Information Systems* (ICIS) December 2003, Seattle.

N. Nan and F. Wan. Web Users' Optimal Online Experience: An Examination of Matching Hypothesis. *Proceedings of Experiential 3D E-commerce Conference* September, 2001, East Lansing.

F. Wan and N. Nan. The Competition of Perceived Gratification Niche between the Internet and Traditional Consumption Channel: Two Exploratory Studies of Young Consumers. *Proceedings of Winter Conference of Society for Consumer Psychology* February, 2001, Tempe, AZ.

OTHER CONFERENCE PRESENTATIONS

N. Nan, G. Chow, and M. Matta. Analytics for Collaborative Organizing in Mobile Workforce: An Approach Combining Field Data and Computer Simulation, NYU 2015 Conference on Digital Big Data, Smart Life, & Mobile Marketing Analytics, October, 2015

N. Nan and M. Mandviwalla. Improving Complex Adaptive Supply Chain with Top-down and Bottom-up IT Processes, 3rd Annual Research Symposium on Complexity and IT, Montpellier, France, July 2015

N. Nan and H. Tanriverdi. Information Technology and Hypercompetition, Wuhan, China, The Twelfth Wuhan International Conference on E-Business, May 25-26, 2013.

A.Espinosa, N. Nan and E. Carmel. Do Gradations of Time Zone Separation Make

a Difference in Performance? A First Laboratory Study. Presented at *2007 International Conference on Global Software Engineering*, Munich, Germany.

N. Nan, S. Kumar and L. Wang. Embedded Trust in Open Source Software Development Communities. *Academy of Management Conference*, 2007, Philadelphia, Pennsylvania.

N. Nan, D. Harter and T. Thomas. Impacts of Schedule and Budget Pressure on Software Development: A Behavioral Perspective. *Academy of Management Conference*, August 2005, Honolulu, Hawaii.

E. W. Johnston, N. Bos, N. Nan and J. S. Olson. Grounding Agent Based Models with Real World Data: Lessons from Theory and Practice. *International Workshop Describing Complex Systems*, May, 2005, Zagreb, Croatia.

ACADEMIC COMMUNITY SERVICES

Associate Editor, MIS Quarterly, 2019-2022

Invited Panelist, National Science Foundation, 2008, 2011

Area Editor, Computational and Mathematical Organization Theory, 01/09 to present

Reviewer, MIS Quarterly, Information Systems Research, Organization Science, Journal of Association of Information Systems, Management Science

HONORS AND AWARDS

Outstanding Associate Editor of 2019 MIS Quarterly	2020
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Outstanding Review of 2016 MIS Quarterly	2017
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Best Conference Presentation Paper Award Academy of Management Organizational Communication and Information Systems Division	2012
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Dean's Excellence Research Paper Award Price College of Business, University of Oklahoma	2011
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Neary Award for excellent teaching and research Ross School of Business, University of Michigan	2005
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Susan Lipschutz Award for Women Graduate Students
Susan Lipschutz Fund, University of Michigan

2005

WORK EXPERIENCE

Associate Professor, Sauder School of Business, University of British Columbia, 2019 – present

Assistant Professor, Sauder School of Business, University of British Columbia, 2012 – 2019

Assistant Professor, Price College of Business, University of Oklahoma, 2006 – 2012.

Web Developer, Kieser & Associates, Kalamazoo, MI, 01/02 - 08/02.

Web and Database Administrator, School of Public Health, U. of Minnesota, 05/00 - 01/02.

Assistant Account Executive, Dentsu, Young & Rubicam Brand Comm., Beijing, 08/98 - 07/99.