

## NING NAN

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### PRIMARY RESEARCH INTERESTS

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

### EDUCATION

*Ph.D.* Business Information Technology  
Ross School of Business, University of Michigan

*M. A.* Mass Communication (minor in Computer Science)  
School of Journalism and Mass Communication, University of Minnesota

*B. A.* Advertising  
Peking (Beijing) University

### JOURNAL PUBLICATION

1. 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.
2. 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.
3. 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.
4. 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.

5. 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.
6. 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.
7. N. Nan. Capturing Bottom-Up IT Use Processes: A Complex Adaptive Systems Model, *MIS Quarterly*, 35, 2, 2011, pp. 505-532.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. N. Nan. 2008. A Principal-Agent Model for Incentive Design in Knowledge Sharing. *Journal of Knowledge Management*, 12, 3, pp.101-113.
14. 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, 2017-2021, 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**

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

## **WORK EXPERIENCE**

*Assistant Professor*, Price College of Business, University of Oklahoma, 07/06 – 05/12.

*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.