

# PING WANG

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## SHORT BIOGRAPHY

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I am a faculty member at the University of Maryland, College Park. My research draws on institutional theory to understand the popularity of new information technologies. In recent years I have taken an ecological perspective to study digital innovations in organizations, communities, and ecosystems. In 2022, I begin to serve as an Associate Editor for the *MIS Quarterly*. I welcome meaningful collaboration opportunities to advance the education, research, and practice of innovations in the digital age.

## ACADEMIC APPOINTMENTS

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| 2011-present | Associate Professor with Tenure, <i>College of Information Studies, University of Maryland, College Park</i>   |
| 2011-present | Affiliate Associate Professor, <i>Robert H. Smith School of Business, University of Maryland, College Park</i> |
| 2009-2011    | Affiliate Assistant Professor, <i>Robert H. Smith School of Business, University of Maryland, College Park</i> |
| 2005-2011    | Assistant Professor, <i>College of Information Studies, University of Maryland, College Park</i>               |

## OTHER EMPLOYMENT

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| 2019-present | Associate, <i>Information Systems Research Program, UCLA Anderson School of Management, Los Angeles</i>       |
| 2016-2020    | Casual Lecturer, <i>School of Computer Science, University of Sydney, Australia</i>                           |
| 2010-2016    | Visiting Professor, <i>School of Information, Central University of Finance and Economics, Beijing, China</i> |

## EDUCATION

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Ph.D. in Information Systems, *UCLA Anderson School of Management*  
Dissertation: *Fashion in Information Technology*

Committee: Barbara S. Lawrence, Olav Sorenson, E. Burton Swanson (Co-Chair), and Lynne G. Zucker (Co-Chair)

M.B.A. in Finance, *Robert H. Smith School of Business, University of Maryland, College Park*

Bachelor of Economics, *Renmin University of China*

## SELECT AWARDS

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- 2016 International Conference on Information Systems (ICIS), **Best Paper Award** (first-place) for the paper coauthored with Myeong Lee, Xu Meng, and Brian Butler "Toward an ecology theory of creativity in IT products: A study of mobile device industry," Dublin, Ireland, December 11-14.
- 2010 Academy of Management, Organizational Communication and Information Systems (OCIS) Division, **Best Published Paper Award** (first-place) for the paper coauthored with Neil Ramiller "Community learning in information technology innovation" published in *MIS Quarterly*, Montreal, Canada, August 6-10.
- 2009 Special Libraries Association Annual Conference, **Best Contributed Paper Award** (first-place) for the paper coauthored with Arlene Fletcher, Mary Franklin, Joyce Garczynski, Glynnis Gilbert, and Sara Mathis "Saving special libraries in a recession: Business strategies for survival and success," Washington DC, June 14-17.
- 2007 Academy of Management Annual Meeting, Organizational Communication and Information Systems (OCIS) Division, **Best Paper Award** (first-place) for the paper "Chasing the hottest IT: Effects of information technology fashion on organizations," Philadelphia, PA, August 5-8.
- 2005 International Conference on Information Systems (ICIS) **Best Doctoral Dissertation Award** (second-place, sponsored by ACM SIGMIS – Association for Computing Machinery, Special Interest Group on Management Information Systems), Las Vegas, NY, December 11-14.
- 2003 **Dissertation Year Fellowship**, UCLA.
- 1998 **MBA Consulting Excellence Award** (first-place), Robert H. Smith School of Business, University of Maryland, College Park.
- 1996 **Graduate Fellowship**, University of Maryland, College Park.

## SELECT GRANTS

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- 2016-2019 **Wang, P.**, Butler B., and Tausczik, Y., "Virtual Observatory of Innovation Communities and Ecosystems (VOICE): Advancing Big Data with Ecology

Theory and Data Science" (Grant #IIS-1546404), \$352,565, U.S. National Science Foundation.

2009-2013 **Wang, P.** and Shneiderman, B., "Science & Technology Innovation Concept Knowledge-base (STICK): Monitoring, Understanding, and Advancing the (R)Evolution of Science & Technology Innovations" (Grant #SBE-0915645), \$718,644, U.S. National Science Foundation.

2007-2011 **Wang, P.**, Oard, D.W., and Fleischmann, K.R., "Scalable Computational Analysis of the Diffusion of Technological Concepts" (Grant #IIS-0729459), \$765,998, U.S. National Science Foundation.

## PUBLICATIONS IN REFEREED JOURNALS

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**Wang, P.** 2021. "Connecting the Parts with the Whole: Toward an Information Ecology Theory of Digital Innovation Ecosystems," *MIS Quarterly (Special Issue: Next-Generation Information Systems Theories)* (45:1), pp 397-422.

Junglas, I., Koch, H., Sundararajan, A., and **Wang, P.** 2017. "Special Issue Editorial: Shared Responsibility and Blurring Boundaries: Strategic Implications of the Sharing Economy," *MIS Quarterly Executive* (16:4), pp. iii-ix.

Shneiderman, B., Dunne, C., Sharma, P., and **Wang, P.** 2012. "Innovation Trajectories for Information Visualizations: Comparing Treemaps, Cone Trees, and Hyperbolic Trees," *Information Visualization* (11:2), pp. 87-105.

Cheng, A.-S., Fleischmann, K.R., **Wang, P.**, Ishita, E., and Oard, D.W. 2012. "The Role of Innovation and Wealth in the Net Neutrality Debate: A Content Analysis of Human Values in Congressional and FCC Hearings," *Journal of the American Society for Information Science and Technology* (63:7), pp. 1360-1373.

**Wang, P.** 2010b. "The Surprising Impact of Fashions in Information Technology," *MIT Sloan Management Review* (51:4), pp. 15-16.

**Wang, P.** 2010a. "Chasing the Hottest IT: Effects of Information Technology Fashion on Organizations," *MIS Quarterly* (34:1), pp. 63-85.

**Wang, P.**, and Ramiller, N.C. 2009. "Community Learning in Information Technology Innovation," *MIS Quarterly* (33:4), pp. 709-734.

Fletcher, A., Franklin, M., Garczynski, J., Gilbert, G., Mathis, S., and **Wang, P.** 2009. "Saving Special Libraries in a Recession: Business Strategies for Survival and Success," *Information Outlook* (13:5), pp. 37-43.

Druin, A., Jaeger, P.T., Golbeck, J., Fleischmann, K.R., Lin, J., Qu, Y., **Wang, P.**, and Xie, B. 2009. "The Maryland Modular Method: An Approach to Doctoral Education in Information Studies," *Journal of Education for Library and Information Science* (50:4), pp. 293-301.

- Wang, P.** 2009. "Popular Concepts Beyond Organizations: Exploring New Dimensions of Information Technology Innovations," *Journal of the Association for Information Systems* (10:1), pp. 1-30.
- Wang, P.**, and Swanson, E.B. 2008. "Customer Relationship Management as Advertised: Exploiting and Sustaining Technological Momentum," *Information Technology and People* (21:4), pp. 323-349.
- Ramiller, N.C., Swanson, E.B., and **Wang, P.** 2008. "Research Directions in Information Systems: Toward an Institutional Ecology," *Journal of the Association for Information Systems* (9:1), pp. 1-22.
- Wang, P.**, and Swanson, E.B. 2007. "Launching Professional Services Automation: Institutional Entrepreneurship for Information Technology Innovations," *Information and Organization* (17:2), pp. 59-88.
- Swanson, E.B., and **Wang, P.** 2005. "Knowing Why and How to Innovate with Packaged Business Software," *Journal of Information Technology* (20:1), pp. 20-31.

## PUBLICATIONS IN REFEREED CONFERENCE PROCEEDINGS

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- Wang, P.**, Lee, M., Hangen, F., O'Brien, D.T., and Tang, X. 2022. "Social Justice & Technical Efficiency: The Role of Digital Technology in Boston's 311 System," in *Proceedings of 30th European Conference on Information Systems (ECIS)*, Timisoara, Romania.
- Tang, X., **Wang, P.**, and Zhu, Z. 2021. "Effects of Centralized and Distributed Quality Control on Sales of Experience Goods in a Transaction Platform Ecosystem," in *Proceedings of the 27th Americas Conference on Information Systems (AMCIS)*, Online.
- Wang, P.**, Zhu, Z., Liu, Q., and Huang, Q. 2020. "Interplay of Competition, Innovation, and Reputation: The Red Queen in Digital Commerce of Experience Goods," in *Proceedings of the 41st International Conference on Information Systems (ICIS)*, Online.
- Zhu, Z., **Wang, P.**, and Huang, Q. 2020. "Red Queen Competition through Innovations on a Digital Platform for Experience Goods " in *Proceedings of the 26th Americas Conference on Information Systems (AMCIS)*, Online.
- Wang, P.** 2019. "Theorizing Digital Innovation Ecosystems: A Multilevel Ecological Framework," in *Proceedings of the 27th European Conference on Information Systems (ECIS)*, Stockholm-Uppsala, Sweden.
- Paradis, C., Kazman, R., and **Wang, P.** 2018. "Indexing Text Related to Software Vulnerabilities in Noisy Communities through Topic Modelling," in *Proceedings of the 17th IEEE International Conference on Machine Learning and Applications (ICMLA)*, Orlando, FL, pp. 763-768.
- Tausczik, Y., and **Wang, P.** 2018. "To Share, or Not to Share? Community-Level Collaboration in Open Innovation Contests," in *Proceedings of the 21st ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*, Jersey City, NJ.

**Wang, P.** 2018. "Taking the 'Eco' Seriously: A Multilevel Model of Digital Innovation Ecosystems," in *Proceedings of the 22nd Pacific Asia Conference on Information Systems (PACIS)*, M. Tanabu and D. Senoo (eds.), Yokohama, Japan.

Tausczik, Y., **Wang, P.**, and Choi, J. 2017. "Which Size Matters? Effects of Crowd Size on Solution Quality in Big Data Q&A Communities," in *Proceedings of the 11th International AAAI Conference on Web and Social Media (ICWSM)*, Montreal, Canada.

Chen, H.-M., Kazman, R., Monarch, I., and **Wang, P.** 2017. "Can Cybersecurity Be Proactive? A Big Data Approach and Challenges," in *Proceedings of the 50th Hawaii International Conference on System Sciences (HICSS)*, Orlando, FL, pp. 5978-5987.

**Wang, P.**, Lee, M., Meng, X., and Butler, B.S. 2016. "Toward an Ecology Theory of Creativity in IT Products: A Study of Mobile Device Industry," in *Proceedings of the 37th International Conference on Information Systems (ICIS)*, Dublin, Ireland.

Chen, H.-M., Kazman, R., Monarch, I., and **Wang, P.** 2016. "Predicting and Fixing Vulnerabilities before They Occur: A Big Data Approach," in *Proceedings of the 2nd International Workshop on BIG Data Software Engineering (BIGDSE)*, Austin, Texas: Association for Computing Machinery, pp. 72–75.

**Wang, P.**, Meng, X., and Butler, B.S. 2015. "How Do Community Ecology and Structure Shape Digital Innovation Strategy?" in *Proceedings of the 36th International Conference on Information Systems (ICIS)*, Fort Worth, TX.

Lee, S.C., Sun, J., and **Wang, P.** 2012. "Innovating Mindfully with OpenTable: A Restaurant's Experience," in *Proceedings of the 33rd International Conference on Information Systems (ICIS)*, Orlando, FL.

Sun, J., and **Wang, P.** 2012. "Community Ecology for Innovation Concept: The Case of Cloud Computing," in *Proceedings of the 33rd International Conference on Information Systems (ICIS)*, Orlando, FL.

Tsui, C.-j., **Wang, P.**, and Fleischmann, K.R. 2011. "Evaluating Two Automatic Methods for Classifying Information Technology Concepts," in *Proceedings of the 32nd International Conference on Information Systems (ICIS)*, Shanghai, China.

Davidson, E., Vaast, E., and **Wang, P.** 2011. "The Greening of IT: How Discourse Informs IT Sustainability Innovation," in *Proceedings of the Green Enterprise and Commerce (GreEnCom) Workshop of the 13th IEEE Conference on Commerce and Enterprise Computing (CEC'11)*, Luxembourg, pp. 421-427.

Tsui, C.-j., **Wang, P.**, Fleischmann, K.R., Sayeed, A.B., and Weinberg, A. 2010b. "Building an IT Taxonomy with Co-Occurrence Analysis, Hierarchical Clustering, and Multidimensional Scaling," in *Proceedings of the iConference*, Champaign, IL, pp. 247-256.

Cheng, A.-S., Fleischmann, K.R., **Wang, P.**, Ishita, E., and Oard, D.W. 2010. "Values of Stakeholders in the Net Neutrality Debate: Applying Content

Analysis to Telecommunications Policy," in *Proceedings of the 43rd Hawai'i International Conference on System Sciences (HICSS)*, Kauai, HI.

Tsui, C.-j., **Wang, P.**, Fleischmann, K.R., Oard, D.W., and Sayeed, A.B. 2010a. "Exploring the Relationships among ICTs: A Scalable Computational Approach Using KI Divergence and Hierarchical Clustering," in *Proceedings of the 43rd Hawai'i International Conference on System Sciences (HICSS)*, Kauai, HI.

Tsui, C.-j., **Wang, P.**, Fleischmann, K.R., Oard, D.W., and Sayeed, A. 2009. "Understanding IT Innovations through Computational Analysis of Discourse," in *Proceedings of the 30th International Conference on Information Systems (ICIS)*, H. Chen and S.A. Slaughter (eds.), Phoenix, AZ.

**Wang, P.** 2008. "Assimilating Information Technology Innovation: The Longitudinal Effects of Institutionalization and Resource Dependence," in *Proceedings of the 29th International Conference on Information Systems (ICIS)*, R. Boland, M. Limayem and B. Pentland (eds.), Paris, France.

Techatassanasoontorn, A., and **Wang, P.** 2008. "Institutionalizing It-Enabled Social Innovations: The Case of Municipal Broadband Innovations," in *Proceedings of the Workshop for the Special Interest Group on the Adoption and Diffusion of Information Technology (SIGADIT)*, Paris, pp. 1-28.

Cheng, A.-S., Fleischmann, K.R., **Wang, P.**, and Oard, D.W. 2008. "Advancing Social Science Research by Applying Computational Linguistics," in *Proceedings of the 71st Annual Meeting of the American Society for Information Science and Technology (ASIS&T)*, Columbus, OH, pp. 1-12.

**Wang, P.** 2007a. "Chasing the Hottest IT: Effects of Information Technology Fashion on Organizations," in *Best Paper Proceedings of the Academy of Management Annual Meeting*, Philadelphia PA.

**Wang, P.** 2007b. "Popular Concepts Beyond Organizations: Exploring New Dimensions of It Innovations," in *Best Paper Proceedings of the Academy of Management Annual Meeting*, Philadelphia PA.

**Wang, P.** 2006. "The Organizational Impact of Information Technology Fashion," in *Proceedings of the 27th International Conference on Information Systems (ICIS)*, D. Straub, S. Klein, W. Haseman and C. Washburn (eds.), Milwaukee, WI, pp. 1247-1260.

**Wang, P.**, and Ramiller, N.C. 2004. "Community Learning in Information Technology Fashion," in *Proceedings of the 25th International Conference on Information Systems (ICIS)*, R. Agarwal, L. Kirsch and J.I. DeGross (eds.), Washington, DC, pp. 11-24.

**Wang, P.** 2001. "What Drives Waves in Information Systems? The Organizing Vision Perspective," in *Proceedings of the 22nd International Conference on Information Systems (ICIS)*, V.C. Storey, S. Sarkar and J.I. DeGross (eds.), New Orleans, LA, pp. 411-418.

## ARTICLES PRESENTED AT REFEREED CONFERENCES

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- Tang, X., Lee, M., Hangen, F., O'Brien, D.T., and **Wang, P.** 2022. "In Search of Social Justice: The Role of Digital Technology in a Government Information System," in *Academy of Management Annual Meeting*: Seattle, WA and Online, August 5-9, p. 17481.
- Zhu, Z., Tang, X., and **Wang, P.** 2021. "Centralized Vs. Distributed Governance of Platform Ecosystems," in *Academy of Management Annual Meeting*: Online, July 29-August 4, p. 15438.
- Wang, P.** 2019. "An Ecological Approach to Theorizing Digital Innovation Ecosystems," in *Academy of Management Annual Meeting*: Boston, MA, August 9-13, p. 14131.
- Wang, P.**, Meng, X., and Butler, B.S. 2015b. "Toward an Ecological Theory and Policy for Digital Innovations," in *6th Biennial Atlanta Conference on Science and Innovation Policy*: Atlanta, GA, September 17-19.
- Wang, P.**, Meng, X., and Butler, B.S. 2015a. "Ecology for Digital Innovation: Understanding the Evolution of Customer Relationship Management," in *Academy of Management Annual Meeting*: Vancouver, Canada, August 7-11, p. 18577.
- Huang, C., **Wang, P.**, and Qu, Y. 2012. "Diffusion of IT Innovations via Social Media: Studying a Chinese Micro-Blog Community," in *Academy of Management Annual Meeting*: Boston, MA, August 3-7, p. 17067.
- Fleischmann, K.R., Oard, D.W., Cheng, A.-S., **Wang, P.**, and Ishita, E. 2009. "Automatic Classification of Human Values: Applying Computational Thinking to Information Ethics," in *72nd Annual Meeting of the American Society for Information Science and Technology (ASIS&T)*, A. Grove (ed.): Vancouver, Canada, November 6–11.
- Fletcher, A., Franklin, M., Garczynski, J., Gilbert, G., Mathis, S., and **Wang, P.** 2009. "Saving Special Libraries in a Recession: Business Strategies for Survival and Success," in *Special Libraries Association Annual Conference*: Washington, DC, June 14-17.
- Wang, P.** 2009. "An Integrative Framework for Understanding the Innovation Ecosystem," in *Conference on Advancing the Study of Innovation and Globalization in Organizations, Institute for Employment Research, German Council for Social and Economic Data, and National Science Foundation*: Nuremberg, Germany, May 2009.
- Wang, P.**, Tsui, C.-j., Fleischmann, K.R., Oard, D.W., and Wang, L. 2009. "Understanding IT Innovations through Discourse Analysis," in *iConference*: Chapel Hill, NC, February 8-11.
- Ramiller, N.C., Swanson, E.B., and **Wang, P.** 2005. "Research Directions, Knowledge Markets, and Institutional Embeddedness," in *Gordon B. Davis Research Symposium*: Minneapolis, MN, May 13-14.
- Wang, P.**, and Swanson, E.B. 2003. "Launching an Organizing Vision: Community Entrepreneurship in Professional Services Automation," in *Academy of Management Annual Meeting*: Seattle, WA, August 1-6.

## BOOK CHAPTERS

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**Wang, P.** 2014. "Community Ecology for Information Technology (IT) Innovation," in *Science of Science and Innovation Policy: Principal Investigators' Conference Summary*, K.H. Fealing, A.S. Beatty and C.F. Citro (eds.). Washington, D.C.: National Academies Press, pp. 60-62.

**Wang, P.** 2008. "Whatever Happened to BPR? The Rise, Fall, and Possible Revival of Business Process Reengineering: From the Organizing Vision Perspective," in *Business Process Transformation*, V. Grover and M.L. Markus (eds.). Armonk, NY: M.E. Sharpe, pp. 23-40.

## COURSES TAUGHT IN THE LAST 5 YEARS

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University of Maryland, College Park

INST 335: *Teams, Management, and Organizations*  
INST 603: *Systems Analysis and Design*  
INST 621: *Managing Digital Innovations in Organizations*  
INST 808: *Research Methods and Data Analysis*  
INFM 600: *Information Environments*  
INFM 612: *Management for Information Professionals*  
INFM 620: *Strategic Information Management*

University of Sydney

INFO 5060: *Data Analytics and Business Intelligence*  
ISYS 5070: *Change Management in Information Technology*

## DOCTORAL STUDENT ADVISING

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2021- Amanda Stein, College of Information Studies, University of Maryland, Chair

2021-2021 Shiping Liu, Department of Mathematics, College of Computer, Mathematical, and Natural Sciences, University of Maryland, Dean's Representative\*

2018-2020 Andrew Casertano, College of Information Studies, University of Maryland, Committee Member

2018-2020 Nila Zhang, Nanyang Business School, Nanyang Technological University, Singapore, Committee Member

2017-2019 Karin Assmann, Philip Merrill College of Journalism, University of Maryland, Dean's Representative

2017-2019 Aishwarya Deep Shukla, Robert H. Smith School of Business, University of Maryland, Dean's Representative



2016-2018	Heejung Byun, Robert H. Smith School of Business, University of Maryland, Dean's Representative
2014-2017	Xu Meng, College of Information Studies, University of Maryland, Co-Chair
2012-2012	Ying Wang, Sociology, University of Maryland, Dean's Representative
2012-2012	Chang Hu, Computer Science, University of Maryland, Dean's Representative
2010-2012	An-Shou Cheng, College of Information Studies, University of Maryland, Committee Member
2007-2011	Chia-jung Tsui, College of Information Studies, University of Maryland, Chair
2010-2010	Zhigang Han, Graduate School of Business, Hong Kong Polytechnic University, China, External Examiner
2007-2009	Sheri A. Massey, College of Information Studies, University of Maryland, Committee Member
2006-2009	Miriam Matteson, College of Information Studies, University of Maryland, Committee Member
2006-2007	Tobin Porterfield, Robert H. Smith School of Business, University of Maryland, Committee Member

\* At the University of Maryland, College Park, the Dean's Representative represents the Dean of the Graduate School and serves to adjudicate the dissertation defense. The responsibilities of the Dean's Representative include ensuring that the procedures of the defense comply with those of the Graduate School and reporting to the Dean of the Graduate School any unusual problems experienced in the conduct of the defense.

## SELECT REVIEW AND EDITORIAL WORK

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2022-	Associate Editor, <i>MIS Quarterly</i>
2020-present	Associate Editor, <i>MIS Quarterly Special Issue on Digital Resilience</i>
2010-present	Review Panelist, <i>U.S. National Science Foundation</i>
2008-present	Associate Editor, <i>International Conference on Information Systems</i>
2007-present	Reviewer, <i>Information Systems Research</i>
2006-present	Reviewer, <i>MIS Quarterly</i>
2019-2019	Track Co-Chair, <i>40th International Conference on Information Systems</i>

2017-2017	Review Editor, <i>Journal of the Association for Information Science and Technology</i>
2016-2017	Guest Senior Editor, <i>MIS Quarterly Executive Special Issue on Sharing Economy</i>
2008-2016	Associate Editor, <i>Academy of Management Annual Meetings</i>
2013-2015	Guest Senior Editor, <i>DATA BASE for Advances in Information Systems</i>
2012-2012	Guest Associate Editor, <i>MIS Quarterly</i>
2009-2010	Member of Program Committee, <i>iConference</i>

#### SELECT COLLEGE AND UNIVERSITY SERVICES

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2021-present	Member, <i>President's Task Force on Inclusive Development, University of Maryland, College Park</i>
2016-2018	Senator, <i>University of Maryland Senate</i>
2012-2016	Councilor, <i>University of Maryland Graduate Council</i>
2012-2016	Director, <i>Ph.D. Program, College of Information Studies, University of Maryland, College Park</i>
2010-2012	Member, <i>Search Committee for Vice President/Chief Information Officer, University of Maryland, College Park</i>

#### PROFESSIONAL MEMBERSHIPS

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Academy of Management  
Association for Information Systems