

## Youngjin Yoo, Ph.D.

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Youngjin Yoo is the Elizabeth M. and William C. Treuhaft Professor in Entrepreneurship and Professor of Information Systems at the department of Design & Innovation at the Weatherhead School of Management, Case Western Reserve University. An Association of Information Systems Fellow, he is also WBS Distinguished Research Environment Professor at Warwick Business School, UK. He is the founding faculty director of xLab at Case Western Reserve University. He has worked as Innovation Architect at the University Hospitals in Cleveland, overseeing the digital transformation efforts at one of the largest teaching hospital systems in the country. Before he returns to Case Western Reserve University, he was the Harry A. Cochran Professor of Management Information Systems and the Founding Director of Center for Design+Innovation at the Fox School of Business, Temple University where he was also the founder and Principal Investigator of Urban Apps & Maps Studios, an interdisciplinary initiative for digital urban entrepreneurship in Philadelphia. Previously, he was the Lewis-Progressive Chair of Management at Case Western Reserve University. He has taught digital innovation strategy around the globe at business schools such as London School of Economics, Warwick Business School, Indian School of Business, Ludwig-Maximilians University in Munich, Hitotsubashi University, Aalto University, and Korean Advanced Institute of Science and Technology. He also worked with NASA in the summer of 2001 and 2003 – 2004. His 2010 *Information Systems Research* article is the most influential paper in digital innovation according to Google Scholar. He was ranked #1 in the world for year 2010 for his research productivity published in top IS journals. He has received over \$4.5 million in research grant from National Science Foundation, NASA, James S. and John L. Knight Foundation, the Department of Commerce, National Research Foundation of Korea, and Samsung Electronics. His work was published at leading academic journals such as MIS Quarterly, Information Systems Research, Organization Science, the Communications of the ACM, and the Academy of Management Journal among others. He is Senior Editor of MIS Quarterly, the Journal of AIS, and the Journal Information Technology, and is on the editorial board of Organization Science, Scandinavian Journal of Information Systems, and Information and Organization. He was a former senior editor of the Journal of Strategic Information Systems and an associate editor of Information Systems Research and Management Science. He has worked with leading companies including Samsung Electronics, Samsung Economic Research Institute, American Greetings, Progressive Insurance, Goodyear Tire, Sotera Health, Bendix, Moen, Intel, Ford Motor Company, Andersen Consulting, IDEO, Gehry and Partners, University Hospitals in Cleveland, American Management Systems, Lotus, NASA, Parker Hannifin, Poly One and the Department of Housing and Urban Development.

## PROFESSIONAL EXPERIENCE

### Primary Appointments

- 2016 - The Weatherhead School of Management, Case Western Reserve University
  - Elizabeth M. and William C. Treuhaft Professor in Entrepreneurship
  - Professor of Information Systems, Department of Design & Innovation
  - Faculty Director, xLab (2019 - )
  
- 2016 – 2017. University Hospitals in Cleveland, Chief Innovation Architect
  
- 2006 - 2016. The Fox School of Business and Management, Temple University
  - Harry A. Cochran Professor of Management Information Systems (2014 - 2016).
  - Professor of MIS and Strategy and Irwin L. Gross Senior Research Fellow (2011 - 2016).
  - Director, Center for Design+Innovation (2010 -2016).
  - Associate Professor (with Tenure) and Irwin L. Gross Research Fellow (2006 - 2011).
  
- 1997 – 2006. The Weatherhead School of Management, Case Western Reserve University
  - Tenure (2006).
  - Associate Professor and Lewis-Progressive Chair of Management (2003 – 2006).
  - Assistant Professor (1997 – 2003).
  
- 1996 – 1997. Full-time lecturer, R. H. Smith School of Business, The University of Maryland

### Visiting Appointments

- Sept., 2013 - WBS Distinguished Research Environment Professor, Warwick Business School, UK.
- March, 2012 - Visiting Professor, Indian School of Business, India.
- Nov., 2017 - 2020 Visiting Professor, London School of Economics & Political Science, UK.
- July, 2011 - 2012 Visiting Professor, Chalmers University of Technology, Sweden.
- May, 2010 Visiting Professor, Institute of Innovation Research, Hitotsubashi University, Japan (3 months).
- July 2009 Visiting Professor, KAIST, Korea (6 weeks).
- Jan, 2008 – 2011 Visiting Professor, Viktoria Institute, Sweden.
- April, 2006 Visiting Professor, Tokyo University of Science (3 weeks).
- June, 2005 Visiting Scholar, City University of Hong Kong, China (4 weeks).
- July, 2004 Visiting Scholar, City University of Hong Kong, China (4 weeks).
- 2003 - 2004 Research Associate, Glenn Research Center at Lewis Field, National Aeronautics and Space Administration.
- May 2001 Summer Research Fellow, Glenn Research Center at Lewis Field, National Aeronautics and Space Administration.

## EDUCATION

- 1997 PhD in Management, R. H. Smith School of Business, The University of Maryland, College Park, Maryland.
- 1990 M.S. in Business Administration (with concentration in Information Systems), Seoul National University, Seoul, Korea.
- 1988 B.S. in Business Administration, Seoul National University, Seoul, Korea.

## PROFESSIONAL APPOINTMENTS AND SERVICE

### Journal Editorial Positions

- MIS Quarterly, Senior Editor, 2013 – 2017; Associate Editor, 2010 - 2013.
- Journal of AIS, Senior Editor, 2013 – 2017.
- Journal of Information Technology, Senior Editor, 2012 – present.
- Organization Science, Editorial Board Member, 2005 – present.
- Information and Organization, Editorial Board Member, 2006 – present.
- Scandinavian Journal of Information Systems, Advisory Board, 2008 – present.
- Journal of Strategic Information Systems, Senior Editor, 2006 – 2009.
- Information Systems Research, Associate Editor, 2005 – 2009.
- Management Science, Associate Editor, 2007 – 2008.
- Journal of AIS, Editorial Board Member, 2003 – 2008.

### Journal Special Issues

- MIS Quarterly, Guest Senior Editor, A special issue on Complexity and Information Systems Research in Emerging Digital Worlds, 2020.
- Innovation: Organization & Management, A special issue on Digital Innovation, 2020.
- Organization Science, Guest Senior Editor, A special issue on Organizing for Innovations in Digitized World, August 2008.
- Journal of AIS, Guest Senior Editor, A special issue on Social Network, December 2007.
- Korean Journal of MIS Research, Guest Senior Editor, A special issue on Web 2.0, December 2007.
- Information Systems Research, Associate Editor, A special issue on The Interplay between Digital and Social Network, 2006.
- Information and Organization, Co-Guest Editor, A special issue on Ubiquitous Computing Environments: Learning from First Wave Social of Organizational Impacts, January 2004.
- Information Systems and E-Business Management, Co-Guest Editor, A special issue on Designing and Implementing Effectively High Impact Ubiquitous Computing Environments, January 2004
- MIS Quarterly, Associate Editor, A special issue on Knowledge Management, 2003.
- Communications of the ACM, Co-Guest Editor, A special issue on Ubiquitous Computing, December 2002.

### Conference and Workshop Organizations

- Program Co-Chair, The International Conference on Information Systems, 2017.
- Division Chair, OCIS Division, The Academy of Management, 2015.
- Program Chair, OCIS Division, The Academy of Management, 2013.

- Doctoral Consortium Co-Chair, PACIS, 2013.
- Doctoral Consortium Chair, OCIS Division, The Academy of Management, 2012.
- Program Co-chair, Americas Conference on Information Systems, August 2012.
- Organizer and host, Research Workshop on Digital Challenges in Innovation Research, The Fox School, Temple University, September 2008.
- Organizer and host, Research Workshop on Digital Transformation of Urban Environments, The Fox School, Temple University, November 2007.
- Program Co-chair, LA Mobility Roundtable, May, 2007.
- Program Chair, International Conference on Mobile Business, Copenhagen, Denmark, May 2006.
- Program Co-chair: IFIP 8.2 Working Conference, 2005.
- Program Committee, Austin Mobile Roundtable, 2004.
- Program Committee, HCI/MIS 2004 Pre- ICIS workshop, 2004.
- Program Committee (served as associate editor), ICIS 2003, 2004, 2007.
- Co-Organizer, Workshop on Ubiquitous Computing Environment: The Design, Implementation and Challenge of Ubiquitous Computing, October 24-26, 2003.
- Program Mini-track Chair, Americas Conference on Information Systems, Technology Supported Learning Mini-track, 1997.

#### **Other Professional Activities**

- Faculty mentor, Doctoral Consortium, AMCIS, August 2014.
- Organizer and Faculty mentor, Junior Faculty Consortium, OCIS Division, The Academy of Management, August 2014.
- Faculty mentor, Doctoral Consortium, OCIS Division, The Academy of Management, August 2011.
- Faculty mentor, Doctoral Consortium, PACIS, June 2011.
- Camp counselor, MIS Camp at AMCIS, August 2007.
- Faculty mentor, Junior Faculty Consortium, OCIS Division, The Academy of Management, August 2007.
- Faculty mentor, ICIS Doctoral Consortium, December 2005.

#### **Recent Significant Media Coverage**

- August 5, 2014, Interviewed in Evening News of CBS Philly (TV) and KYW (Radio).
- November 28, 2012, Featured in Academic Minute, WAMC - nationally syndicated through NPR.
- November 1, 2012, Featured in "The Smartest People in Philadelphia," Philadelphia Magazine (one of the 13 technologists).
- November 8, 2011, Speaker at TEDx Philly on "A City as a Computing Platform".
- October 11, 2011, Featured in "Scalable Innovation: Science Center Panel, Temple Prof Explore Paths," Flying Kite.

## RESEARCH

### Profile:

- Citation: 19,637
- H-index: 50

### Research Interests

Digital Innovation, Design, Organizational Genetics, and Societal Use of Technology, Healthcare

### Refereed Scholarly Journal Papers

1. Borgers, M., Garud, R., Thomas, T.W., Tuertscher, P. and Yoo, Y. (2021). Digital innovation: Transforming research and practice, *Innovation: Organization & Management*. 1- 19.
2. Pentland, B., Yoo, Y., Recker, J. and Kim, I. (2021). From Lock-in to Transformation: A Path-Centric Theory of Emerging Technology and Organizing, *Organization Science*. 33:1, 194-211.
3. Lehmann, J., Yoo, Y., Recker, J. and Rosenkranz, C. (2021). Designing Digital Market Offerings: How Digital Ventures Navigate the Tension Between Generative Digital Technology and the Existing Environment, *MIS Quarterly*.
4. Wang, G., Henfridsson, O., Nandhakumar, J., and Yoo, Y. (2021). Product Meaning in Digital Product Innovation, *MIS Quarterly*.
5. Autio, E., Mudambi, R., and Yoo, Y. (2021). Digitalization and globalization in a turbulent world: Centrifugal and centripetal forces: *Global Strategy Journal*.
6. Zhang, Z., Yoo, Y., Lyytinen, K., and Lindberg, A., (2021). The Unknowability of Autonomous Tools and the Liminal Experience of Their Use, *Information Systems Research*. 32:4, 1192-1213.
7. Zhang, Z. Choi, Y., Lee, H., Yoo, Y. (2021). Theorizing Organizational Routines with Computational Sequence Analysis: A Critical Realism Framework. *Journal of the Association of Information Systems*.
8. Von Briel, F. Recker, J. Selander, L., Jarvenpaa, S., Hukal, P., Yoo, Y., Lehmann, J., Chan, Y., Rothe, H., Alpar, P., Fürstenau, D., and Wurm, B., (2021). Researching digital entrepreneurship: Current issues and suggestions for future directions. *Communications of the AIS*. 48:1.
9. Baskerville, R., Myers, M., and Yoo, Y. (2020). Digital First: The Ontological Reversal and New Challenges for IS Research, *MIS Quarterly*. 44(2), 509-523.
10. Hind, B., Nang, N., Tanriverdi, H., and Yoo, Y. (2020). Complexity and Information Systems Research in Emerging Digital World, *MIS Quarterly*. 44(1), 1-17.
11. Berente, N., Maurer, C., Lyytinen, K., and Yoo, Y. (2019). Institutional Logics and Pluralistic Responses to Enterprise System Implementation: A Qualitative Meta-Analysis, *MIS Quarterly*. 43(3), 873-902.
12. Kranz, J., Nagel, E., & Yoo, J. (2019). Initial Coin Offering: Economic and Technological Foundations of Token Sales on the Blockchain. *Business & Information Systems Engineering*. 61(6), 745-753.

13. Son, I., Lee, D., Lee, G, and Yoo, Y. (2018). The Effect of Cloud-based IT Architecture on IT Exploration and Exploitation: Enabling Role of Modularity and Virtuality. *Asia Pacific Journal of Information Systems*. 1(1), 10.
14. Berente, N. T., Lyytinen, K. J., Yoo, Y., King, J. L. (2016). Routines as Shock Absorbers During Organizational Transformation: Integration, Control, and NASA's Enterprise Information System. *Organization Science*, 27(3), 551-572.
15. Lyytinen, K. J., Yoo, Y., Boland, Jr., R. J. (2016). Digital Product Innovation within Four Classes of Innovation Networks. *Information Systems Journal*, 26(1), 47-75.
16. Shen, X., Lyytinen, K. J., Yoo, Y. (2015). Time and Information Technology in Teams: A Review of Empirical Research and Future Research Directions. *European Journal of Information Systems*, 24(1), 1-27.
17. Schutz, D. M., Yoo, Y., Fukushima, M. (2015). Redefining Vertical Market Business Processes: The Impact on Industry from the Internet of Things (IoT)(特集 スマート・モバイル・イノベーション). *日本情報経営学会誌*, 36(1), 80-90.
18. Yoo, Y. (2015) It is not about size: A further thought on big data. *Journal of Information Technology*. 30. 63-65.
19. Eaton, B., Elauf-Calderwood, S., Sorenson, C., & Yoo, Y. (2015). Distributed Tuning of Boundary Resources: The Case of Apple's iOS Service System. *MIS Quarterly*. 39:1, 217-243.
20. Gaskin, J., Berente, N., Lyytinen, K. & Yoo, Y. (2014). Toward a generalizable sociomaterial inquiry: A computational approach for zooming in and out of sociomaterial routines. *MIS Quarterly*. 38:3, 849-871.
21. Henfridsson, O. and Yoo, Y. (2013). The liminality of trajectory shifts in institutional entrepreneurship. *Organization Science*. 25:3, 932-950.
22. Yoo, Y., (2013), The Table Has Turned: How can IS field contribute to technology and innovation management? *Journal of the Association for Information Systems*. 14:5, Article 4.
23. Yoo, Y., Boland, R. J. Jr., Lyytinen, K., and Majchrzak, A. (2012). Organizing for Innovation in Digitized World, *Organization Science*. 23:5, 1398-1408.
24. Berente, N. and Yoo, Y. (2012). Institutional contradictions and loose coupling: Post implementation of NASA's Enterprise Information Systems, *Information Systems Research*. 23:2, 376-396.
25. Yoo, Y., Bryant, T., and Wigand, R., (2010). Designing Digital Communities that Transform Urban Life: An Introduction to a Special Section on Digital City, *Communications of AIS*. 27: 1, Article 33.
26. Yoo, Y., Henfridsson, O., and Lyytinen, K. (2010). The new organizing logic of digital innovation: An agenda for information systems research. *Information Systems Research*. 21:4, 724-735.
27. Choi, S., Lee, H. and Yoo, Y. (2010). The Impact of IT and Transactive Memory Systems on Knowledge Sharing, Application and Team Performance: A Field Study, *MIS Quarterly*. 34:4, 855-870.
28. Lyytinen, K., Rose, G., & Yoo, Y. (2010). Learning routines and disruptive technological change: Hyper-learning in seven software development organization during internet adoption. *IT and People*. 23:2, 165-192. (Won a Highly Recommended Paper award for Emerald Literati Network Awards for Excellence 2011).
29. Yoo, Y. (2010). Computing in Everyday Life: A Call for Research on Experiential Computing. *MIS Quarterly*. 34:2, 213-231.
30. Berente, N., Gal, U., and Yoo, Y. (2010). Dressage, Control and enterprise System: the Case of NASA's Full Cost Initiative. *European Journal of Information Systems*. 19:1, 21-35.

31. Oinas-Kukkonen, H., Lyytinen, K. & Yoo, Y. (2010). Social networks and information systems: Ongoing and future research streams. *Journal of the Association for Information Systems*. 11:2, 61-68.
32. Gal, U., Lyytinen, K., & Yoo, Y. (2008). The dynamics of boundary objects, social infrastructures and social identities. *European Journal of Information Systems*. 17:3. 290-304.
33. Boland, R. J., Jr., Collopy, F., Lyytinen, and Yoo, Y. (2008). Managing as designing: Lessons for organization leaders From the design practice of Frank O. Gehry, *Design Issues*. 24:1, 10-25.
34. Carlo, J. L. & Yoo, Y. (2007). "How may I help you?" Politeness in computer-mediated and face-to-face library reference transactions. *Information & Organization*, 17:4, 193-231.
35. Boland, R. J., Jr., Lyytinen, K. & Yoo, Y. (2007). Wakes of innovation in project networks: The case of 3-D representation in architecture, engineering and construction, *Organization Science*, 18:4, 631-647. (Best Published Paper of OCIS Division of the Academy of Management in 2008).
36. Kanawattanachai, P., & Yoo, Y. (2007). The impact of knowledge coordination on virtual team performance over time. *MIS Quarterly*, 31:4, 783-808.
37. Yoo, Y., Lyytinen, K. & Heo, D. (2007). Closing the gap: Toward a Process Model of Post-Merger Knowledge Sharing, *Information Systems Journal*. 17:4, 321-347.
38. Yoo, Y., Boland, R. K., Jr., and Lyytinen, K. (2006). From organization design to organization designing, *Organization Science*, 17:2, 215-229.
39. Lyytinen, K. & Yoo, Y. (2006). Designing and implementing effectively high impact ubiquitous computing environments. *Information Systems and E-Business Management*, 4:4, 395-397.
40. Yoo, Y., Lyytinen, K. & Yang, H. (2005). The role of standards in innovation and diffusion of broadband mobile services: The case of South Korea, *Journal of Strategic Information Systems*, 14:3, 323-353.
41. Yoo, Y. & Lyytinen, K. (2005). Social impacts of ubiquitous computing: Exploring critical interactions between mobility, context and technology. *Information & Organization*, 15:2, 91-94.
42. Yang, H., & Yoo, Y. (2004). It's all about attitude: Revisiting the technology acceptance model. *Decision Support Systems*, 38:1, 19-31.
43. Yoo, Y., & Alavi, M. (2004) Emergent leadership in virtual teams: What do emergent leaders do? *Information and Organization*, 14:1, 27-58.
44. Lyytinen, K., Yoo, Y., Varshney, U., Ackerman, M, Davis, G., Avital, M., Robey, D., Sawyer, S., & Sorensen, C. (2004). Surfing the next wave: Design and implementation challenges of ubiquitous computing, *Communications of the AIS*, 13:40.
45. Kanawattanachai, P., & Yoo, Y. (2002) The dynamic nature of trust in virtual teams. *Journal of Strategic Information Systems*, 11:3-4, 187-213.
46. Lyytinen, K., & Yoo, Y. (2002). Ubiquitous computing in the next wave: Issues and challenges. *Communications of the ACM*, 45:12, 63-65.
47. Alavi, M., Marakas, G., & Yoo, Y. (2002). A comparative study of technologies for distance learning. *Information Systems Research*, 13:4, 404-415.
48. Lyytinen, K., & Yoo, Y. (2002). The next wave of nomadic computing. *Information Systems Research*, 13:4, 377-388.
49. Yoo, Y., & Kanawattanachai, P. (2002). Developments of transactive memory and collective mind in virtual teams. *International Journal of Organizational Analysis*, 9:2, 187-208.
50. Yoo, Y., Kanawattanachai, P., & Citurs, A. (2002). Forging into the wired wilderness: A case study of technology-mediated distributed discussion-based class. *Journal of Management Education*, 26:2, 121-138.

51. Yoo, Y., & Alavi, M. (2001). Media and group cohesion: Relative influences on social presence, task participation and group consensus. *MIS Quarterly*, 25:3, 371-390.
52. Alavi, M., Yoo, Y., & Vogel, D. (1997). Using information technology to add value to management education. *Academy of Management Journal*, 40:6, 1310-1333.
53. Alavi, M., & Yoo, Y. (1995). IT, BPR, and productivity gains. *Information Systems Management*, 12:4, 43-47.
54. Yoo, Y., & Ahn, J. (1991). Optimality and fairness in chargeback systems—Two rabbits to chase? *Journal of MIS Research* (in Korean), 1:1, 117-146.

### **Practitioner Articles**

55. Yoo, Y. and Euchner, J. (2020). Digital First Thinking for Industrial Companies, *Research-Technology Management Journal*, 62:3, 12-18.
56. Yoo, Y. & Kim, K. (2015). How Samsung Became a Design Powerhouse, *Harvard Business Review*, September.
57. Yoo, Y. and Euchner, J. (2015). Design in the Generative Economy, *Research-Technology Management Journal*, 58:2, 1-7.

### **Refereed Book Chapters**

58. Kulathinal, R.J., Yoo, Y., and Kumar, S. 2020. The bits and bytes of biology: Digitalization fuels an emerging generative platform for biological innovation, in Satish, N., Lyytinen, K. and Yoo, Y. (Ed.), *Handbook of Digital Innovation*, Edward Elgar.
59. Lyytinen, K., Nambisan, S., and Yoo, Y. (2020). A Transdisciplinary Research Agenda for Digital Innovation: Key Themes and Directions for Future Research, in Satish, N., Lyytinen, K. and Yoo, Y. (Ed.), *Handbook of Digital Innovation*, Edward Elgar.
60. Nambisan, S., Lyytinen, K., and Yoo, Y. (2020). Digital Innovation: Toward A Transdisciplinary Perspective, in Satish, N., Lyytinen, K. and Yoo, Y. (Ed.), *Handbook of Digital Innovation*, Edward Elgar.
61. Yoo, Y. (2012), Digital Materiality and the Emergence of Evolutionary Sciences of Artificial, in Kallinikos, J., Nardi, B., and Leonaridi, P. (Ed.) *Materiality and Organizing*. pp. 134-154
62. Choi, Y., Thummadi, B. V., Lyytinen, K., and Yoo, Y. (2012). Analyzing complex design processes: The effects of task automation and integration on process structure in microprocessor design, in M. Helfert and B. Donnellan (Ed.), *Practical Aspects of Design Science: Communications in Computer and Information Science Volume*, Springer-Verlag, 38-49.
63. Yoo, Y. (2008), Mobilizing knowledge in a Yu-Gi-Oh! World, in Becerra-Fernandez, I. & Leidner, D. (Ed.) *Knowledge Management: An Evolutionary View of the Field*, New York: M.E. Sharpe.
64. Sorensen, C. & Yoo, Y., (2005), Socio-technical Studies of Mobility and Ubiquity, In Sorensen, C., Yoo, Y., Lyytinen, & DeGross, J. I. (Ed.). *Designing Ubiquitous Information Environments: Socio-technical Issues and Challenges: The Proceedings of IFIP TC 8 WG 8.2 International Working Conference in 2005*, England: Springer-Verlag, 1-14.
65. Yoo, Y. & Lyytinen, K. (2005), Measuring the consequences of ubiquitous computing in network organizations, In K. C. Desouza (Ed.), *New Frontiers in Knowledge Management*, New York: Palgrave Mcmillian, 147-162.
66. Yoo, Y. (2005). On artifact as default. In F. Collopy and J. Faust (Ed.), *Dialogue in the realm of Managing as Designing*, Cleveland, OH: Cleveland Institute of Art, 138-149.



67. Yoo, Y. (2004). The less, the better, perhaps: Learning from music language. In R. J. Boland, Jr., and F. Collopy (Ed.), *Managing as Designing*, Palo Alto, CA: Stanford University Press, 229-232.
68. Pearce, C., Yoo, Y., & Alavi, M. (2003) Leadership in virtual teams: The relative influence of vertical vs. shared leadership in virtual teams. In R. Riggion and S. S. Orr (Ed.), *Improving Leadership in Nonprofit Organizations*, San Francisco, CA: Jossey-Bass, 180-204.
69. Yoo, Y., Emerging information technology and digital strategy in knowledge-based economy (in Japanese), In Faculty of Osaka City University (Ed.), *Management Information Systems*, Osaka: Yuhikaki, 2003, 175-193.
70. Boland, R. J., Jr., & Yoo, Y. (2002). Sense-making and knowledge management. In C. Holsapple (Ed.), *Handbook on Knowledge Management*, England: Springer-Verlag, 381-392.
71. Yoo, Y., & Torrey, R. (2002). National cultures and knowledge management in a global learning organization: A case study. In N. Bontis and C.W. Choo (Eds.), *Strategic Management of Intellectual Capital and Organizational Knowledge: A Collection of Readings*, New York: Oxford University Press, 421-434.
72. Yoo, Y., & Ifvarsson, C. (2001). Knowledge dynamics in organisations. In E. Coaks, D. Willis, and S. Clarke (Eds.), *Knowledge Management in the Socio Technical World: The Graffiti Continues*, England: Springer-Verlag, 52-64.

### **Refereed Conference Papers**

73. Grisold, T., Gau, M. and Yoo, Y. (2021). Coding like a rockstar: The role of social influence on action patterns in Github. A paper presented at the 42<sup>nd</sup> International Conference on Information Systems. Austin, Texas, USA.
74. Gao, K., Yoo, Y., and Schechter, A. (2021). A dynamic analysis of the complex interplay between internal and external networks of open-source projects on innovation behaviors. A paper presented at the 42<sup>nd</sup> International Conference on Information Systems. Austin, Texas, USA.
75. Ayday, E., Yoo, Y., and Halimi, A. (2021). ShareTrace: An Iterative Message Passing Algorithm for Efficient and Effective Disease Risk Assessment on an Integration Graph, A paper presented at ACM-BCB/WABI 2021.
76. Al-Sulaiti, G., Value, C., Yoo, Y. (2018). Understanding the New Organizing Logic of Digital Platforms. A paper presented at Strategic Management Society 38<sup>th</sup> Annual Conference.
77. Nagaraj, V. and Yoo, Y. (2018). The Vulcan Mind Meld: How Product Teams Use Software Tools to Build Shared Understanding in the Fuzzy Front End, A paper presented at TEMSCON 2018.
78. Um, S., Yoo, Y., Hahn, J. & Kang, D. (2018). "The co-evolution of a digital platform ecosystem: A network perspective," A paper presented at the 39<sup>th</sup> International Conference on Information Systems. San Francisco, USA.
79. Li, X., Yoo, Y., and Zhang, Z. (2016). Searching for "Stability" in Fluidity: A Routine-based View of Open Source Software Development Process. A paper presented at the 37<sup>th</sup> International Conference on Information Systems. Dublin, Ireland.
80. Zhang, Z., Choi, Y., Lee, H., and Yoo, Y. (2016). The Organizing of Online Community: Fluid and Structural Organizing. A paper presented at the 37<sup>th</sup> International Conference on Information Systems. Dublin, Ireland.
81. Um, S., and Yoo, Y. (2016). The Co-Evolution of Digital Ecosystems. Proceedings of the 37<sup>th</sup> International Conference on Information Systems. Dublin, Ireland.

82. Yoo, Y. (2016). Digital Innovation and New Business Ecosystem. A paper presented at Digital Innovation Caucus at the Academy of Management Annual Meeting. Anaheim, CA.
83. Um, S. and Yoo, Y. (2016). The Evolution of Generative Architecture of an Open Ecosystem: A Case of WordPress from 2004 to 2014. Platform Research Symposium, Boston University, Boston, MA.
84. Li, X., Zhang, Z., and Yoo (2016), "A Routine-based View of Open Source Software Development Process", A paper presented at the 12<sup>th</sup> Open and User Innovation Conference, Harvard Business School, Boston, MA.
85. Um, S., Yoo, Y., and Wattal, S., (2015). The Evolution of Generative Architecture of an Open Ecosystem: A Case of WordPress from 2004 to 2014. Proceedings of the 36<sup>th</sup> International Conference on Information Systems, Texas, USA
86. Zhang, Z., Yoo, Y., Wattal, S., and Zhang, B., (2014). Generative Diffusion of Innovations and Knowledge Networks in Open Source Projects, A paper presented at the 35<sup>th</sup> International Conference on Information Systems, Auckland, New Zealand.
87. Zhang, Z., Berente, N., and Yoo, Y., (2014). Method-based versus Software-based Design Innovation: A sequence-analytic simulation", A paper presented at 20<sup>th</sup> Americas Conference on Information Systems, Savannah, Georgia.
88. Zhang, Z., Lindberg, A., Lyytinen, K, and Yoo, Y. (2014). Digital Design Tools and the Temporality of Design. A paper presented at the Academy of Management Annual Meeting. August 1-5, Philadelphia, PA.
89. Son, I., Lee, D., Lee, G., and Yoo, Y. (2014). IT architecture and organizational learning: The effect of modularity and virtualization. A paper presented at the Academy of Management Annual Meeting, August 1-5, Philadelphia, PA.
90. Lindberg, A., Gaskin, J., Berente, N., Lyytinen, K. and Yoo, Y. (2013). Computational approaches for analyzing latent social structures in open source organizing, A paper presented at the 34<sup>th</sup> International Conference on Information Systems, Dec 15 - 18, 2013, Milan Italy.
91. Um, S., Yoo, Y., Wattal, S., Kulathinal, R., and Zhang, B., (2013). The architecture of generativity in a digital ecosystem: A network biology perspective, A paper presented at the the 34<sup>th</sup> International Conference on Information Systems, Dec 15 - 18, 2013, Milan Italy.
92. Choi, K., Il, I., and Yoo, Y., (2013). Liquid communications: An analysis of the impact of mobile micro-blogging on communication and decision-making, A paper presented at the the 34<sup>th</sup> International Conference on Information Systems, Dec 15 - 18, 2013, Milan Italy.
93. Lindberg A., Gaskin J., Lyytinen K., Yoo Y. (2013): "Understanding change in open source communities: A co-evolutionary framework", A paper presented at the Academy of Management Annual Meeting, August 9-13, TIM division.
94. Zhang, Z., Yoo, Y., Wattal, S. and Kulathinal, R. (2012). Generative Diffusion of Innovations: An Organizational Genetics Approach. A paper presented at the 33<sup>rd</sup> International Conference on Information Systems, Dec 16 – 19, Orlando. (Best Research-in-Progress Award).
95. Um, S., Yoo, Y., Berente, N., and Lyytinen, K. (2012). Digital artifacts as Institutional Attractors: A System Biology Perspective on Change in Organizational Routines, Proceedings of the IFIP 8.2 Working Conference: Shaping the Future of ICT Research. Methods and Approaches, p.195-209.
96. Gaskin, J., Lyytinen, K., Yoo, Y. and Pentland, B. (2012). The Effects of Digital Intensity on Combinations of Sequential and Configural Process Variety. Proceedings of the International Conference of Information Systems, Dec 16 – 19, Orlando.

97. Zhang, Z., Yoo, Y., Wattal, S., & Kulathinal, R. (2012). Digital Innovation and Organizational Genetics: The Case of Web APIs and Mashups. A paper presented at the Academy of Management Annual Meeting, August 3-7, Boston, MA.
98. Gaskin, J.E., Thumandi, V., Lyytinen, K., and Yoo, Y. (2011). Digital technology and the variation in design routines: A sequence analysis of four design processes. Proceedings of the International Conference of Information Systems, December 3-7, Shanghai, China. (Best Paper Award)
99. Elauf-Calderwood, SM, Eaton, BD, Sorensen, C., Yoo., Y. (2011) Control as a strategy for the development of generativity in business, Proceedings of the 15th International Conference on Intelligence in Next Generation Networks, pp. 271-276.
100. Gaskin, J.E., Lyytinen, K., Yoo, Y., Shiv, O., and Zhang, Z. (2011). Evolution of digitally-enabled design processes: The case of a large design and construction firm, A paper presented at the Academy of Management Annual Meeting, August 12-16, San Antonio, Texas.
101. Eaton, BD, Elauf-Calderwood, SM, Sorensen, C., and Yoo, Y. (2011). Structural narrative analysis as a means to unfold the paradox of control and generativity that lies within mobile platforms. Proceedings of the 10th International Conference on Mobile Business, 68-73.
102. Park, J., Boland, RJ, Jr., and Yoo, Y. (2011). Discovering the meanings of design in IS: Reviews and future directions. Proceedings of the DESTRICT 2011, pp. 124-137.
103. Alavi, M., Johnson, S., Yoo, Y. and, Willey, T. (2010). IT-enabled Knowledge Management in Healthcare Delivery: The Case of Emergency Care, Proceedings of the International Conference on Information Systems, December 12-15, St. Louis, MO.
104. Nan, N., and Yoo, Y. (2010). "Social Construction of User Beliefs of Collaborative Technology: A Multi-Method Approach," Proceedings of the International Conference on Information Systems, December 12-15, St. Louis, MO.
105. Burtch, G., Weiss, A. and Yoo, Y. (2010). "Digital Innovation and Craftsmanship: The Case of C. F. Martin & Company", Proceedings of the International Conference on Information Systems, December 12-15, St. Louis, MO.
106. Gaskin, J., Lyytinen, K., Thummadi, V., Schutz, D., Yoo, Y., Weiss, A. and Berente, N. (2010). "Design DNA Sequencing: A Set of Methodological Artifacts for Sequencing Socio-technical Design Routines", Proceedings of the International Conference on Information Systems, December 12-15, St. Louis, MO.
107. Gaskin, J. E., Schutz, D. M., Berente, N., Lyytinen, K. and Yoo, Y. (2010). The DNA of design work: Physical and digital materiality in project-based design organizations, The Best Papers Proceedings of the Academy of Management Annual Meeting, August 6-11, Montreal, Canada.
108. Yoo, Y., Lyytinen, K., Thummadi, V., and Weiss, A. (2010). Unbounded innovation with digitalization: A case of digital camera, A paper presented at the Academy of Management Annual Meeting, August 6-11, Montreal, Canada.
109. Svahn, F., Henfridsson, O., and Yoo, Y. (2009), A Threesome Dance of Agency: Mangling the Sociomateriality of Technological Regimes in Digital Innovation, Proceedings of the International Conference on Information Systems, Phoenix, AZ.
110. Schutz, D., Kim, Y-Y., Yoo, Y. and Pavlou, P. (2009), An Empirical Investigation on the Role of IT Materiality in Multidisciplinary Innovation, Proceedings of the International Conference on Information Systems, Phoenix, AZ.
111. Schutz, D., Kim, Y-Y., and Yoo, Y. (2009), Unleashing mobility in the organization: A time-geography perspective, Proceedings of the 42<sup>nd</sup> Hawaiian International Conference on Systems Science, Big Island, Hawaii.

112. Berente, N., Srinivasan, N., Lyytinen, K. and Yoo, Y. (2008), Design principles for IT in doubly distributed design networks, Proceedings of the International Conference on Information Systems, Paris, France.
113. Berente, N., Yoo, Y., and Lyytinen, K. (2008), Loose coupling and enterprise systems: A longitudinal study of NASA's ERP implementation, Proceedings of the International Conference on Information Systems, Paris, France.
114. Berente, N., Yoo, Y., and Lyytinen, K. (2008), Measuring distributed innovation. A paper presented at the Academy of Management Annual Meeting, August 8-13, Anaheim, CA.
115. Saari, T., Yoo, Y., and Tussaydiah, I.P. (2008), Emotions in mobile media assisted tourist experiences. Proceedings of ICA Conference, May 22-26, Montreal, Canada.
116. Yoo, Y., Tussaydiah, I.P., Fesenmaier, D. R., Saari, T., & Tjostheim, I. (2008). Emergent Distributed Narratives in Spatiotemporal Mobility: An Exploratory Study on Mobile 2.0 Services, Proceedings of the 41<sup>st</sup> Hawaiian International Conference on Systems Science, Big Island, Hawaii.
117. Tussaydiah, I.P., Fesenmaier, D.R., & Yoo, Y. (2008). Tracking Tourists' Spatiotemporal Experiences as Collective Narratives of an Urban Destination. Proceedings of TTRA Conference.
118. Tussaydiah, I.P., Fesenmaier, D.R., & Yoo, Y. (2008). Designing Interactions in Tourism Mediascapes: Identification of Patterns for Mobile 2.0 Platform. Proceedings of ENTER 2008 Conference, Innsbruck, January 23-25, 2008. (Best paper runner-up).
119. Yoo, Y., Lyytinen, K., and Boland, R. J. (2008). Distributed Innovation in Classes of Network. Proceedings of the 41<sup>st</sup> Hawaiian International Conference on Systems Science, Big Island, Hawaii.
120. Berente, N., Srinivasan, N., Yoo, Y., Boland, R.J., and Lyytinen, K. (2007). Binate Diversity and the Rolling Edge of Design Networks. A paper presented at the International Conference on Information Systems, Montreal, Quebec, Canada.
121. Berente, N., Lyytinen, K. and Yoo, Y. (2007). An Institutional Analysis of Pluralistic Responses to Enterprise System Implementations. Proceedings of the International Conference on Information Systems, Montreal, Quebec, Canada.
122. Berente, N. and Yoo, Y. (2007). Reconciliation Mechanisms and the Façade of Alignment with Enterprise Systems: The Case of NASA. A paper presented at the Academy of Management Annual Meeting, Philadelphia, PA.
123. Racheria, P., Mandviwalla, M., Yoo, Y. and Jain, A. (2007). Deconstructing "Universal Access" to Digital Information Infrastructure: The Case of Philadelphia Wireless Initiative. A paper presented at the LA Global Mobility Roundtable, Los Angeles, CA.
124. Jung, Y. and Yoo, Y. (2006). What goes around, comes around: An open source community model of knowledge circulation. A paper presented at the Academy of Management Annual Meeting, Atlanta, GA.
125. Hansen, S. and Yoo, Y. (2006). Technology adoption in distributed cognitive environments. A paper presented at the Academy of Management Annual Meeting, Atlanta, GA.
126. Berente, N., Gal, U., and Yoo, Y. (2006). Dressage and the illusion of enterprise control. Proceedings of European Conference on Information Systems.
127. Cai, Q., Liberatore, V. , Cavusoglu, M. C. and Yoo, Y. (2006). Evaluation Methods of a Middleware for Networked Surgical Simulations. Proceedings of Medicine Meets Virtual Reality XIV (MMVR'06), Long Beach, CA, January 24 – 27, 2006.
128. Shen, Z., Yoo, Y., and Lyytinen, K. (2006). Temporal Implications of Information Technology for Work Practices: Organizing in and for Time in an Emergency Department, Proceedings of 2006 Hawaii International Conference of Systems Science.

129. Yoo, Y. (2005). (How) Can we have Korean perspectives in the Global Market of IS Research?, Proceedings of 2005 International Conference by the Korea Society of Management Information, Seoul, Korea.
130. Gal, U., Yoo, Y., & Boland, Jr. R. J. (2005). The dynamics of boundary objects, social infrastructures and social identities, Proceedings of 2005 European Conference of Information Systems.
131. Yoo, Y., Jiang, Y., & Shen, Z. (2004). Where is the Asian voice in IS research? An examination of Asian authors' influence on IS literature, Proceedings of the Eighth Pacific-Asia Conference on Information Systems, China, 1967-1974.
132. Yoo, Y., Lyytinen, K., & Yang, H. (2004). The role of standards and its impact on the diffusion of broadband mobile services: A Korean Case, A paper presented at the Austin Mobility Roundtable, Austin, TX.
133. Boland, R., Lyytinen, K. & Yoo, Y. (2003). Path creation with digital 3D representations: Networks of innovation in architectural design and construction. A paper presented at DIGIT, Seattle, WA.
134. Yang, H., Yoo, Y., Lyytinen, K., & Ahn, J. (2003). Diffusion of broadband mobile services in Korea: The role of standards and its impact on diffusion of complex technology system. A paper presented at OASIS, Seattle, WA.
135. Luo, Y. & Yoo, Y. (2003). Language and Media: A pragmatic examination of computer-mediated communication. A paper presented at ASAC.
136. Heo, D., & Yoo, Y. (2003). Knowledge Sharing in Post Merger Integration, A paper presented at Minnesota Knowledge Management Symposium.
137. Yoo, Y., Berstein, A, Fano, A., Kim, J., & Valacich, J. S. (2002). Ubiquitous Computing: "New" and "Old" Research Opportunities and Challenges. A panel presented at the International Conference on Information Systems, Barcelona, Spain.
138. Yoo, Y., & Lyytinen, K. (2002). Ubiquitous computing in organizations: A field study on productivity potential and transforming capability. A paper presented at the Tokyo Mobile Roundtable.
139. Yoo, Y., & Kanawattanachai, P. (2001). Developments of transactive memory and collective mind in virtual teams. A paper presented at the Academy of Management Annual Meeting, Washington, D.C.
140. Yoo, Y. (2001). Re-creation of distributed knowledge as a mode of inter-team knowledge transfer. A paper presented at the Academy of Management Annual Meeting, Washington, D.C.
141. Yoo, Y., Kwon, D., & Ahn, J. (2000). Knowledge management in a global consulting company: A profile of high-performers. Proceedings of the 2000 Joint International Conference by the Korea Society of Management Information Systems and the Japan Society of Office Automation, Seoul, Korea.
142. Yang, H., Yoo, Y., & Liu, R. (2000). It's about attitude: Revising the Technology Acceptance Model. Proceedings of 2000 Joint International Conference by the Korea Society of Management Information Systems and the Japan Society of Office Automation, Seoul, Korea.
143. Yoo, Y., & Essex, E. (2000). Group history, group process, and media perceptions: A micro-process analysis. A paper presented at the 2000 Academy of Management Annual Meeting, Toronto, Canada.
144. Citurs, A., & Yoo, Y. (1999). Development of expertise coordination patterns in electronic teams. A paper presented at the 1999 Academy of Management Annual Meeting, Chicago, Illinois.

145. Yoo, Y., Ginzberg, M. J., & Ahn, J. (1999). A cross-cultural investigation of the use of knowledge management systems. Proceedings of Twentieth Annual International Conference on Information Systems, 501-505.
146. Yoo, Y. (1998). Predicting groupware acceptance. Proceedings of the 31st Hawaii International Conference on Systems Sciences.
147. Yoo, Y. (1997). Effects of electronic communication technology on top management teams' structures and decision-making process and outcomes. Proceedings of Eighteenth Annual International Conference on Information Systems. 235-248.
148. Yoo, Y., & Alavi, M. (1996). Emergence of leadership and its impact on group performance in virtual team environments: A longitudinal field study. Proceedings of Seventeenth Annual International Conference on Information Systems, 444-445.
149. Yoo, Y. (1996). The effects of group development on the utilization of video channel and decision quality of distributed decision-making groups. Proceedings of 2nd Americas Conference of Association for Information Systems, 992-994.
150. Yoo, Y., & Alavi, M. (1996). Electronic mail as a rich medium and desktop videoconferencing as a lean medium: A theoretical explanation on paradoxical results. Proceedings of 2nd Americas Conference of Association for Information Systems, 479-481.
151. Yoo, Y. (1995). An investigation of group development process in "virtual" project team environments. Proceedings of Sixteenth Annual International Conference on Information Systems. 346.
152. Yoo, Y. (1995). An empirical investigation of the effects of group standing on the appropriation of video channel in a distributed decision-making environment. Proceedings of ICIS 1995 Ernst & Young Foundation Doctoral Consortium.
153. Yoo, Y., & Wheeler, B. (1995). The impact of group support systems on leadership behavior. Proceedings of Inaugural Conference of Association for Information Systems, 264-266.
154. Yoo, Y. (1994). Economic impact of networked organizations: Motivation and performance. Proceedings of IFIP 8.2 '94 OASIS, 50 - 51.
155. Ahn, J., Park, C., & Yoo, Y. (1994). Impact of information technology on firm performance in a rapidly developing country. Proceedings of IFIP 8.2 '94 OASIS, 33-36.

### **Other Papers**

156. Yoo, Y., Lyytinen, K., Bolad, R. J. Jr., and Berente, N. (2010). The Next Wave of Digital Innovation: Opportunities and Challenges, A Report on the Research Workshop of "Digital Challenges in Innovation Research", Social Science Research Network ([http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=1622170](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1622170))
157. Yoo, Y. and Hill, T. L. (2010) How and What to Open: A strategic framework of open innovation, IBIT Report.
158. Yoo, Y. (2004). The Implementation and the Consequences of Integrated Financial Management Program at NASA: A Socio-technical Analysis, Final Report to NASA Glenn Research Center.
159. Yoo, Y. (2001). Creation and sharing of distributed knowledge. Collaborative Aerospace Research and Fellowship Program at NASA Glenn Research Center, Final Report, 39-41.
160. Alavi, M., & Yoo, Y. (1997). A social influence model of groupware acceptance in distributed teams. Harvard Business School Working Paper, 97-053.
161. Yoo, Y., & Alavi, M. (1997). Leadership emergence in virtual team environments. Harvard Business School Working Paper, 97-097.

162. Alavi, M., & Yoo, Y. (1997). Is learning in virtual teams real? Harvard Business School Working Paper, 97-095.
163. Alavi, M., Yoo, Y., & Vogel, D. (1997). Using information technology to add value to management education: A case study. Harvard Business School Working Paper, 97-034.
164. Alavi, M., & Yoo, Y. (1995). Education in the information age: The case of an electronic classroom. Supplementary Proceedings, HICSS 1995 Advanced Tutorial on Electronic Support for Learning, January.
165. Yoo, Y. (1989). A study on successful implementation of information technology in business organizations. Research Report (in Korean), 311 - 350, Institute of Social Science, Seoul National University Press.

## Books

1. Satish, N., Lyytinen, K. & Yoo, Y. (2020). *Handbook of Digital Innovation*. Edward Elgar.
2. Yoo, Y., Lee, J-N., & Rowley, C. (2008). *Trends in Mobile Technology and Business in the Asia-Pacific Region*. Oxford: Chandos Publishing.
3. Sorensen, C., Yoo, Y., Lyytinen, K. & DeGross, J. I. (2005). *Designing Ubiquitous Information Environments: Socio-technical Issues and Challenges: The Proceedings of IFIP TC 8 WG 8.2 International Working Conference in 2005*, England: Springer-Verlag.
4. Park, C., Chang, J., & Yoo, Y. (1991). *Exercises in business data processing (in Korean)*, Bub-Moon Sa, Seoul.

## Refereed Journal Submissions

- Um, S., Zhang, B., Wattal, S., and Yoo, Y. Software Components and Product Variety in a Digital Platform Ecosystem: A Dynamic Network Analysis of WordPress. Submitted to *Information Systems Research*
- Hukal, P. Henfridsson, O., and Yoo, Y. Complexity, External Depedence, and the Pace of Change in Unbounded Platform Ecosystems. Submitted to *Organization Science* (1<sup>st</sup> round).

## Working Papers

- Al-Sulaiti, G., Velu, C., and Yoo, Y. Inversion of the inverted. Being prepared to submit to *Strategy Science*
- Malaurent, J. Kude, T., and Yoo, Y. From Tour Paris 13 to #Tourparis13: Digital objects and the digital transformation of organizing. Being prepared to submit to *MIS Quarterly*.
- Zhewei, Z. Yoo, Y. & Henfridsson, O. Co-evolution of Web APIs and Mashups. Being prepared to submit to *MIS Quarterly*.
- Gaskin, J.E., Berente, N., Lyytinen, K., and Yoo, Y. Digital technology and the variation in design routines: A sequence analysis of four design processes. Being revised for a resubmission.
- Um, S., Yoo, Y., Kang, M., and Hahn, J. Popularity and Competition in a Digital Platform Ecosystem: A Network Perspective. Being revised for a resubmission.

## Research Grants

- October 2021, PI for "Generative Diffusion of Artificial Intelligence," funded by National Science Foundation (SES-212054), \$350,773.

- September 2021, Co-PI for “Privacy-preserving Distributed Healthcare Analytics,” funded by Cisco, \$50,000 (with Erman Ayday).
- October 2020, Co-PI for “Planning Grant: FW-HTF-P Distributed Intelligent Assistant to Infrastructure Inspection Workers,” funded by National Science Foundation (#2026612), \$150,000 (with X. Yu, Y. Ye, M-C. Huang, and K. Daltorio).
- October 2020, PI for “Next Computing Paradigm,” funded by Samsung Electronics, \$50,001.
- June 2020, PI for “ShareTrace App, funded by Emitto LLC, \$323,342 (with Erman Ayday).
- February 2015, PI for “Big data: Multi-level predictive analytics & motif discovery across massive dynamic patio-temporal networks in complex socio-technical systems: An organizational genetics approach,” funded by National Science Foundation (#1447670), \$899,506 (with S. Wattal, R. Kulathinal, and Z. Obradovic).
- February 2013, PI for “The Structure and Dynamics of Generative Innovations: An Organizational Genetics Approach”, funded by National Science Foundation (#1261977), \$273,076 (with S. Wattal, R. Kulathinal, and B. Zhang).
- September 2012, PI for “Digital Urban Leadership and Civic Start-up Program”, funded by John S. and James L. Knight Foundation, \$635,400.
- September 2012, PI for “Designing 21<sup>st</sup> Century Organizations for Generativity: An Organizational Genetics Approach”, funded by CIGREF, France, \$92,550 (with S. Wattal and R. Kulathinal).
- August 2012, Co-PI for “Cohesive Ecology of the Cyber Community: A Social Media-driven Approach,” National Research Foundation of Korea, \$132,000 (with M. Song as PI).
- September 2011, PI for “Building a sustainable ecosystem for urban economic development: Urban Apps & Maps Studio”, funded by Economic Development Agency, \$500,000.
- September 2011, Co-PI for “Eager: A Meso-Scale GENI WiMax Project” – funded by National Science Foundation, \$199,716 (with J. Wu as PI).
- September 2011, PI for “VOSS-Collaborative Research: Evolution in Virtualized Design Processes in Project-Based Design Organizations” – funded by National Science Foundation (#1120966), \$214,590 (with R. Kulathinal).
- September 2009, PI for “Virtualization of work capabilities in project-based design organizations” – funded by National Science Foundation (#0943010), \$80,366.
- September 2007, PI for “Constructing Second Life Island for Management Education Innovation” – funded by Fox School of Business and Management, \$6,225.
- March 2007, PI for “Mobile computing and user-activated narrative networks in tourism” – funded by Samsung Electronics, \$55,000.
- September 2006, PI for “Distributed Innovation in Doubly Distributed Socio-Technical Systems: The Role of Digital Information Infrastructure in Architecture, Engineering and Construction Industries” – funded by National Science Foundation (#0621262), \$686,366 (with R. Boland and K. Lyytinen).
- May 2005, PI for “Designing for innovations in ubiquitous computing products and services” – funded by Summer Research Grant, Weatherhead School of Management, \$4,995.
- October 2003, PI for “Implementation of full cost management and enterprise resource planning systems and its consequences on collaborative knowledge work at NASA” – funded by NASA Glenn Research Center, Cleveland, OH, \$46,127.



- May 2003, Glennan Fellowship for “Designing Knowledge Environments and Products: A New Approach to Management Education”—funded by the University Center for Innovations in Teaching and Education, Case Western Reserve University, \$6,500.
- December 2002, PI for “A Comparative Study of Diffusion of Mobile Computing in Korea, the US, and Finland”—funded by the Korean Research Foundation, \$150,000 for three years (with H-D. Yang and J. Ahn).
- May 2002, PI for “Exploring wireless wilderness: An Explorative Study of the Feasibility and Impacts of Remote and Local Mobility Support in Learning and Student Support at the Weatherhead School of Management” – funded by the Dorney Grant, Weatherhead School of Management, \$33,000.
- May 2002, Co-PI for “Path Creation with Digital Technologies: Networks of Innovation in Architectural Design and Construction”—funded by National Science Foundation (#0208963), \$450,000 (with R. Boland as PI).
- May 2001, Summer Research Fellowship to study “Creation and transfer of distributed knowledge” – funded by NASA Glenn Center, \$10,000.
- May 2000, PI for “Inter-unit transfer of distributed knowledge” – funded by the Summer Research Grant, Weatherhead School of Management, \$6,000.
- April 2000. PI for “Effective knowledge sharing” – funded by the Center for Regional Economic Issues, \$4,000.
- May 1999. PI for “A cross cultural study on the use of knowledge management system at a global consulting firm” – funded by the Summer Research Grant, Weatherhead School of Management, \$6,000.
- August 1998. PI for “Managing Electronic Teams in Global Economy.” – funded by the Nord Grant, University Center for Innovations in Teaching and Education, Case Western Reserve University, \$10,000.
- May 1998. PI for "Communication process, media appropriation, and team performance: A micro-process analysis" – funded by the Summer Research Grant Weatherhead School of Management, \$5,000.
- July 1997. Received software grant to conduct a study of “Computer-mediated Collaborative Distributed Learning Environments” – funded by Lotus Corp., \$32,000.
- August 1996. Received grant to present “The Effects of Group Development on the Utilization of Video Channel and Decision Quality of Distributed Decision-Making Groups” at the 2nd Americas Conference for Information Systems – funded by the College of Business and Management, University of Maryland.
- July 1996. Received research grant to conduct a study of “An Investigation of Virtual Teams for Learning and Problem Solving.” – funded by Lotus Institute, \$4,000.
- December 1995. Received grant to present “An Empirical Investigation of The Effects of Group Standing on the Appropriation of Video Channel in a Distributed Decision-Making Environment” at 1996 Ernst & Young/ICIS Doctoral Consortium – funded by Graduate School, University of Maryland, \$2,000.
- December 1995. Received grant to present “An Investigation of Group Development Process in “Virtual” Project Team Environments” at the Sixteenth International Conference on Information Systems – funded by College of Business and Management, University of Maryland, \$1,000.

- May 1993. Received grant to develop “Total Quality Classroom Software” – funded by IBM-TQ project, University of Maryland at College Park, \$1,500.
- May 1989. Received grant to conduct a study of "A Study on Successful Implementation of Information Technology in Business Organization" – funded by the Institute of Social Science, Seoul National University, \$1,000.

### **Panels Organized or Chaired**

- “Patterns of Digital Disruption: Insights from the Financial Sector,” A panel at Strategic Management Society 38<sup>th</sup> Annual Meeting, Paris.
- “Technology for societal change,” A plenary panel at OCIS Division at the 2013 Academy of Management, Orlando, FL.
- “Un-haunting from the ghost that we killed: IS research and education in the post-industrial economy,” A panel at International Conference on Information Systems in Paris, France, 2008.
- “Has IS missed the network revolution? Future Directions and Potential Risks of Network Perspectives on IS Research,” A panel at International Conference on Information Systems in Milwaukee, WI, 2006.
- “IT-enabled collaboration in Architecture, Engineering and Construction: Evidence from the Field,” A panel at ACADIA 2005.
- “Community-based wireless networks,” A panel at Austin Mobility Roundtable 2004.
- “Ubiquitous computing: Next Wave or next hype?” A panel at the International Conference on Information Systems, 2002.
- “Knowledge sharing in teams: Insights from the field,” A symposium jointly sponsored by OCIS and OMT division at the Academy of Management Annual Meeting, 2001.

### **Invited Presentations**

- “Organizing in the Age of Organic Machines,” An invited talk at HEC Montreal February 28, 2020.
- “Organizing in the Age of Organic Machines,” An invited talk at Copenhagen Business School, February 21, 2020.
- “Organizing in the Age of Organic Machines,” An invited talk at HEC Paris, February 17, 2020.
- “Organizing in the Age of Organic Machines,” An invited talk at Flumserberg Ski Seminar, February 14, 2020.
- “AI as Organic Machines and the Future of Firms,” An invited talk at the Diginomics Seminar at the University of Bremen, Germany, December 13, 2019. (<https://youtu.be/hyiDEnCcLtk>)
- “Digital Transformation of Healthcare Industry,” A grand rounds talk at Cleveland Clinic Foundation, November 26, 2019.
- “The evolution of WordPress,” A plenary presentation at Digital Innovation Conference, NYU, September 27, 2019.
- “AI as Information Infrastructure and the Future of Firms,” A presentation at New York University, September 26, 2019.
- “AI as Information Infrastructure and the Future of Firms,” A keynote presentation at Innovation in Information Infrastructure Workshop, University of Surrey, UK. ,September 19, 2019.

- “Digital First,” A presentation at the Institute of Innovation Research at Hitotsubashi University, Tokyo, Japan, September 9, 2019.
- “Value Creation in Digital Economy: Three Business Models,” A keynote presentation at ISOM/JOMSA Annual Conference, Tokyo, Japan, September 5, 2019.
- “Studying digital transformation,” An invited lecture at KIN Summer School, Vrije Universiteit Amsterdam, June 27, 2019.
- “The limit of multi-sided digital platforms,” A presentation at Ludwig-Maximilian University of Munich, May 28, 2019.
- “The limit of multi-sided digital platforms,” A presentation at London School of Economics, February 19, 2019.
- “The limit of multi-sided digital platforms,” A presentation at Warwick Business School, February 14, 2019.
- “Generative Evolution of A Platform Ecosystem: The First Decade of WordPress,” A presentation at Institute of Information Systems at the University of Cologne, June 19, 2018.
- “Generative Evolution of A Platform Ecosystem: The First Decade of WordPress,” A presentation at Ludwig-Maximilian University of Munich, June 14, 2018.
- “Generative Evolution of A Platform Ecosystem: The First Decade of WordPress,” A presentation at Warwick Business School, June 6, 2018.
- “Closing the loop: An Experiential Computing Perspective on Digital Person,” An invited presentation at the 2<sup>nd</sup> Digital Person Symposium, Cambridge University, May 30, 2018.
- “Generative Evolution of A Platform Ecosystem: The First Decade of WordPress,” A presentation at London School of Economics, May 29, 2018.
- “Studying Crowdfunding using Organizational Genetics,” A presentation at NSF Convergent Workshop on Crowdfunding, Alexandria, VA, May 17-19, 2018.
- “Envisioning the Future: Design + Business,” A panel discussion at Museum of Contemporary Art in Cleveland, November 1, 2017.
- “From Publishing to Printing: Immateriality of Digital Innovation and New Business Models in Generative Economy”, A presentation at Imperial Innovation and Entrepreneurship Conversation, Imperial University, June 22, 2017.
- “The Generative Nature of Digitality,” A keynote presentation at *Designing 2020 Enterprise Conference*, CIGREF, May 19, 2016.
- “From Publishing to Printing: Immateriality of Digital Innovation and New Business Models in Generative Economy”, A presentation at Cambridge Manufacturing Group, Cambridge University, May 12, 2016.
- “From Publishing to Printing: Immateriality of Digital Innovation and New Business Models in Generative Economy”, A presentation at the University of Maryland, April 22, 2016.
- “The Socio-Digital Construction of Reality: New Direction for IS Research”, A presentation at the University of Arkansas, April 15, 2016.
- “From Publishing to Printing: Immateriality of Digital Innovation and New Business Models in Generative Economy”, A keynote presentation at Organizing for Digital Innovation, KIN Research Group, VU University of Amsterdam, Amsterdam, March 12, 2016.
- “Developing a New Form of Computational Social Science: Organizational Genetics to Study Digital Innovation”, A presentation at New York University, October 2015.

- “Developing a New Form of Computational Social Science: Organizational Genetics to Study Digital Innovation”, A presentation at George Washington University, September 2015.
- “Digital Innovation and Designing New Business Model,” A plenary presentation at the 3rd Business Model Innovation Workshop, Institute of Manufacturing at Cambridge University, June 2015.
- “Developing a New Form of Computational Social Science: Organizational Genetics to Study Digital Innovation,” A plenary presentation at Korea University International Marketing Symposium, May 2015.
- “Digital Innovation, Reversed Semiotics, and Generative Economics: How Is Service Eating Up the World?”, A Keynote presentation at Service Systems Forum 2015, Venice, Italy, May 2015.
- “Social Fabric from Digital Threads: Toward a New Social Science of Organizing,” A presentation at Yonsei University, May 2015.
- “Beyond Design Thinking,” A presentation at Samsung Electronics, April 2015.
- “Developing a New Form of Computational Social Science: Organizational Genetics to Study Digital Innovation”, A presentation at the University of Minnesota, April 2015.
- “Digital Innovation, Reversed Semiotics, and Generative Economics,” An opening keynote at the 15th Social Studies of ICT Workshop, London School of Economics, April, 2015.
- “Developing a New Form of Computational Social Science: Organizational Genetics to Study Digital Innovation”, A presentation at Baruch College, March 2015.
- “Developing a New Form of Computational Social Science: Organizational Genetics to Study Digital Innovation”, A presentation at University of Southern California, January 2015.
- “Developing a New Form of Computational Social Science: Organizational Genetics to Study Digital Innovation”, A presentation at McGill University, January 2015.
- “Next Industrial Revolution: Digitalization and Its Implications on R&D Management,” A plenary presentation at IRI 2014 Membership Summit, October 2014.
- “Digital Innovation, Design, and Evolutionary Sciences of the Artificial,” A keynote Presentation at MEDES2014, Qassim, Saudi Arabia, September 2014.
- “Quad Core of Pervasive Digitalization and A Strategic Framework for Digital Innovation,” A keynote presentation at ISB Digital Summit, Hyderabad, India, August 2014.
- “From consumers to creators: The power of design”, A presentation at research symposium at the Academy of Management Annual Meeting, Philadelphia, PA, August 2014.
- “Digitalization and the evolutionary sciences of the artificial,” A presentation at Professional Development Workshop at the Academy of Management Annual meeting, Philadelphia, PA, August 2014.
- “A morphogenetic analysis of generative digital artifacts”, A presentation at the 2nd Complex Adaptive Systems and IT Workshop, University of British Columbia, July 2014.
- “Digital innovation in the age of generative machines”, A keynote presentation at the annual meeting of FINAKI, Canne, France, June 2014.
- “Digital innovation in the age of generative machines”, A presentation at Philadelphia Navy Yard, May 2014.
- “A morphogenetic analysis of generativity of digital artifacts”, A presentation at Boston College Workshop on Social Media and Digital Innovation, May 2014.

- “Design and evolution of complex sociotechnical systems”, A keynote presentation at the 3rd InfraGlobe Workshop, University of Oslo, Norway, April 2014.
- “Creating a platform for citizen entrepreneurship digital civic start-ups”, A presentation at Terry School of Business at the University of Georgia, April 2014.
- “The evolution of WordPress Ecosystem: An organizational Genetics Approach,” A presentation at SSK International Workshop, Yonsei University, March 2014.
- “Studying digital technology in the age of generative machines”, A presentation at School of Tourism at Kyung Hee University, March 2014.
- “The problem of Big Data”, A panel presentation at the 14th Annual Symposium of Social Studies of Information Technology, London School of Business, March 2014.
- “Digital tools and the temporality of design: A case study of semiconductor manufacturer”, A presentation at Warwick Business School, February 2014.
- “Engaged scholarship on capitalism in question: Participatory social entrepreneurship research,” A professional development workshop at the 2013 Academy of Management, Orland, 2013.
- “The architecture of generativity in social media ecosystems,” A presentation at Graduate School of Information Sciences, Yonsei University, Korea, January 2013.
- “The architecture of generativity in social media ecosystems,” A presentation at Graduate Business School, Yonsei University, Korea, January 2013.
- “Pervasive digitalization and the City as a Computing Platform: Building a Platform for Urban Civic Start-ups,” A presentation at Samsung Economic Research Institute, January 2013.
- “The digitalization and the emergence of the evolutionary sciences of the artificial,” A presentation at Samsung Economic Research Institute, January 2013.
- “Digital Service Ecosystem Innovation and Design,” Samsung Electronic Design Center, January 2013.
- “Being Innovative about Service Innovation: Problematizing Service(s) and Digital Innovation in IS Research,” A presentation at a panel at the International Conference on Information Systems, December 2012.
- “Digitalization and the Emergence of the Evolutionary Sciences of the Artificial,” A presentation at Yonsei University, Korea, August 2012.
- “Digitalization and the Emergence of the Evolutionary Sciences of the Artificial,” A presentation at Seoul National University, Korea, August 2012.
- “Modularity and Digitalization: The Digital Revolution and Complex Product Innovation,” A presentation at a panel at the 72<sup>nd</sup> Academy of Management Annual Meeting, Boston, August 7, 2012.
- “Digital Affordances and the Evolutionary Sciences of the Artificial,” A presentation at a panel at European Conferences on Information Systems, Barcelona, 10 – 12 June, 2012.
- “Digitalization and the Emergence of the Evolutionary Sciences of the Artificial” A presentation at the Boston University, November 2011.
- “Digitalization and the Emergence of the Evolutionary Sciences of the Artificial,” A presentation at the Chalmers University of Technology, October 2011.
- “Digitalization and the Emergence of the Evolutionary Sciences of the Artificial,” A presentation at PDW “Decoding the DNA in social sciences: a sequence analysis method for analyzing

complex process data”, 71<sup>st</sup> AoM Meeting, San Antonio August 13, 2011

- “Digital City as a Computing Platform for Urban Innovation,” A Keynote at 2011 Center for Knowledge and Innovation Research Workshop, Finland, August 2011.
- “After the Promised Land: Digitalization and the Emergence of the Evolutionary Sciences of Artificial” A Keynote presentation at IFIP 8.2, Turku, Finland, June 2011.
- “Management + Design,” A Presentation at Jeju International Forum, May 2011.
- “Digitalization and the Emergence of the Evolutionary Sciences of Artificial” A presentation at the University of Auckland, April 2011.
- “Digitalization and the Emergence of the Evolutionary Sciences of Artificial” A presentation at Aalto School of Economics, Helsinki, Finland, March 2011.
- “Digitalization and the Emergence of the Evolutionary Sciences of Artificial” A presentation at Strategic Management Department at Fox School of Management, Temple University, March 2011.
- “Digitalization and the Emergence of the Evolutionary Sciences of Artificial” A presentation at Harvard Business School, February 2011.
- “IS after hours: How should IS researchers study non-organizational uses of ICT?”, A presentation at a panel at the International Conference on Information Systems, December 12-15, St. Louis, MO.
- “Digital Innovation and the New Organizing Logic,” A presentation at the University of Reading, September 2010.
- “Digital Innovation and the New Organizing Logic,” A presentation at Forum on Market and Marketing, Cambridge University, September 2010.
- “Digital Innovation and Design: Lessons Learned from iPod,” A presentation at Viktoria Institute, Goteborg, Sweden, September 2010.
- “Managing as Designing in the Age of Design,” A presentation at Professional Development Workshop, Annual Meeting of the Academy of Management, Montreal, Canada, August 2010.
- “Digital Innovation and Design: Lessons Learned from iPod,” A presentation at AcademyHills at Roppongi Hills, Tokyo, Japan, August 2010.
- “Digital Innovation and the New Organizing Logic,” A presentation at the Institute of Innovation Research at Hitotsubashi University, Tokyo, Japan, June 2010.
- “Managing in the Age of Generative Machine,” A Keynote presentation at Design+Management Conference, Cleveland, OH, June 2010.
- “They just don’t get it: Digital innovation and the future of industrial firms”, A presentation at Korea University, April 2010.
- “Unbounded Digital Innovation and Smart Ecology Strategy: Digital City as a Computing Platform”, A plenary presentation at 2010 Entru World, Seoul Korea, April 2010.
- “They just don’t get it: Digital innovation and the future of industrial firms”, A presentation at Viktoria Institute, March 2010.
- “Creating Digital Opportunities in Incumbent Firms,” A presentation at the University of Oklahoma, November 2009.
- “Computing in everyday life: A call for research on experiential computing,” A presentation at the University of Pittsburgh, October 2009.

- “Teaching Design to MBA students”, A presentation at Professional Development Workshop, Annual Meeting of the Academy of Management, Chicago, August 2009.
- “Digital Convergence”, A presentation at Professional Development Workshop, Annual Meeting of the Academy of Management, Chicago, August 2009.
- “The Wicked Problem of Innovations in Doubly Distributed Innovation Networks: An Example from Architecture, Engineering and Construction Industry” A presentation at Hitotsubashi University, Japan, June 2009.
- “The Wicked Problem of Innovations in Doubly Distributed Innovation Networks: An Example from Architecture, Engineering and Construction Industry” A presentation at Osaka City University, Japan, June 2009.
- “Digital Challenges in Innovation in AEC Industry,” A presentation at the University of Reading, April 2009.
- “Innovating with Experiential Computing,” A plenary presentation at the 9<sup>th</sup> Social Studies of ICT Workshop, London School of Economics, April 2009.
- “Path Creation in Digital Innovation: A multi-layered dialectic perspective,” A presentation at University of Cambridge, April 2009.
- “Computing in everyday life: A call for research on experiential computing,” A presentation at the University of Adger, Norway, March 2009.
- “Path Creation in Digital Innovation: A multi-layered dialectic perspective,” A presentation at Case Western Reserve University, February 2009
- “Path Creation in Digital Innovation: A multi-layered dialectic perspective,” A presentation at New York University, February 2009.
- “Opportunities and challenges in field research in the IS field,” An invited panel at IT University, Gothenburg, Sweden, November 2008.
- “Open innovation in a digitized world,” A keynote address at the annual research symposium at Viktoria Institute, Gothenburg, Sweden, November 2008.
- “A dark night at the museum in the CIO’s office,” An invited talk at the annual meeting of Museum Computer Network, Washington, D.C., November 2008.
- “Digital Innovation and BIM”, A panel presentation at AIA Philadelphia Annual Meeting, Philadelphia, PA, November 2008.
- “Reconciliation Mechanisms and the Façade of Alignment with Enterprise Systems: The Case of NASA” A presentation at Jönköping International Business School, Sweden, August 2008.
- “Digital Challenges in Innovations in AEC Industry” A keynote presentation at the Annual Advisory Board Meeting for Professional Services in AEC Cluster at Microsoft, Redmond, WA, May 2008.
- “Managing Continuing Innovations” A presentation at SAP Design Service Team, Palo Alto, May 2008.
- “Network of Innovations” A presentation at Halmstad University, Sweden, April 2008.
- “Distributed Innovations in Architecture, Engineering and Construction” A presentation at OPND meeting, Viktoria Institute, Sweden, September 2007.
- “Designing Innovations in an iPod world: What can we learn from Frank O. Gehry?” A plenary presentation at the Annual Conference at the Center for Knowledge and Innovation Research, Helsinki School of Economics, Finland, August 2007.

- “Computing in everyday life: a call for research on experiential computing,” A research presentation at Washington State University, April 2007.
- “Computing in everyday life: a call for research on experiential computing,” A research presentation at Michigan State University, November 2006.
- “Computing in everyday life: a call for research on experiential computing,” A research presentation at Georgia State University, October 2006.
- Breaking away from the tyranny of flat screens: a call for research on experiential computing,” A research presentation at Seoul National University, Korea, March 2006.
- “Breaking away from the tyranny of flat screens: a call for research on experiential computing,” A research presentation at Korea University, Korea, March 2006.
- “Breaking away from the tyranny of flat screens: a call for research on experiential computing,” A research presentation at Viktoria Institute, Sweden, March 2006.
- “Managing as designing: Lessons learned from Frank O. Gehry,” A presentation at Zollverein School of Management and Design, Germany, March 2006.
- “From organization design to organization design-ing,” A presentation at Managing As Designing Workshop: A Global Perspective, Seoul National University, Korea, June 2005.
- “From organization design to organization design-ing,” A presentation at Batten Institute, the University of Virginia, May 2005.
- “Post-merger knowledge management” A presentation at Indiana University, April 2005
- “Mobilization of Knowledge in Doubly Distributed Systems,” A research presentation at Transforming Architecture, Engineering and Construction: The Digital Challenge, Case Western Reserve University, October 2004.
- “It’s not a rocket science, but it’s pretty close to it: Implementation of integrated financial management systems at NASA,” A presentation at the E-business Advisory meeting, Weatherhead School of Management, September 2004.
- “Using business game as a platform for virtual team student project,” A panel presentation at Professional Development Workshop at the Academy of Management, August 2004.
- “Connecting the dots: An emerging perspective on knowledge management research” A presentation at City University of Hong Kong, August 2004.
- “Knowledge management: What’s the problem?” A presentation at E&Y annual retreat of network coordinators of the Center for Business Knowledge, June 2004.
- “IT-enabled organizational transformation: Challenges of doubly distributed forms” A research presentation at Monthly Policy Meeting of Korea Institute for Electronic Commerce, July 2004.
- “Creating and sharing distributed knowledge” A presentation at NASA Research & Technology Directorate Monthly Meeting, June 2004.
- “It is not a rocket science, but pretty close to it” A presentation at NASA Glenn Research Center, June 23, 2004.
- “Designing knowledge-based organizations,” A Glennan Fellowship presentation at UCITE, May 2004.
- “The development and performance of virtual teams: A social cognition perspective,” A research seminar presentation at American University, April 2004.
- “Research on ubiquitous computing in organizations: Socio-technical research agenda,” A research seminar presentation at Intel Research, January 2004.



- “Research on ubiquitous computing in organizations: Socio-technical research agenda,” A research seminar presentation at the Office of CIO and the Department of Computer Science, Seoul National University, January 2004.
- “Research on ubiquitous computing in organizations: Socio-technical research agenda,” A research seminar presentation at Ewha Woman’s University, January 2004.
- “One size doesn’t fit all: Knowledge management systems and knowledge sharing practices in global learning organizations” A research seminar presentation at the Office of CIO and the Department of Computer Science, Seoul National University, January 2004.
- “Connecting the dots: Videoconferencing, virtual teams, Lotus Notes, Frank Gehry, HUD, the emergency room, the Swedish Police and NASA” A research seminar presentation at Information Systems Department, Weatherhead School of Management, December 2003
- “Diffusion of Broadband Mobile Services in Korea: The Role of Standards and Its Impact on Diffusion of Complex Technology System”, A paper presented at Ubiquitous Computing Workshop, Case Western Reserve University, October 2003.
- “Measuring the consequences of ubiquitous computing in networked organizations,” A paper presented at Ubiquitous Computing Workshop, Case Western Reserve University, October 2003.
- “Surfing the next wave of any time, any place computing,” An invited presentation at Bold Idea Leadership Workshop, Weatherhead Executive Education, September, 2003.
- “Research on ubiquitous computing,” An invited research presentation at INFWEST.IT, Pori, Finland, August 2003.
- “Mobility of interactions in socio-technical systems,” An invited presentation at a panel at IRIS, Haikko, Finland, August 2003.
- “The use of PLS in IS research” An invited research presentation at Yonsei University, Seoul, Korea, May 2003.
- “Path creation with digital 3D representations: Networks of innovation in architectural design and construction,” An invited presentation at a Research Seminar at University of Maryland, April 2003
- “Exploring wireless wilderness,” An invited presentation at No Strings Attached Conference at Case Western Reserve University, April 2003
- “Next Wave of Ubiquitous Computing in Knowledge Economy: Opportunities and Challenges,” An invited presentation at A Conference on Emerging and Future Computing Paradigm and their Impact on the Research, Training, and Design Environments of the Aerospace Workforce at NASA Langley Research Center, March 2003.
- “The use of PLS in IS research” An invited research presentation at Ewha Women’s University, Seoul, Korea, May 2002.
- “Nomadic Computing: A Research Agenda for Information Systems Research” An invited research presentation at Yonsei University, Seoul, Korea, May 2002.
- “Dynamics of socially-shared cognition,” An invited presentation at Goizueta Business School, Emory University, April 2002.
- “Why the Internet has not changed the higher education, yet?” An invited presentation at World Knowledge Forum, 2001, Seoul, Korea, October 2001.
- “Why the Internet has not changed the higher education, yet?” An invited presentation at Ewha Women’s University, 2001, Seoul, Korea, October 2001.

- “Nomadic Computing: A Research Agenda for Information Systems Research” An invited research presentation at Seoul National University, October 2001.
- “Network technology and new organizations” An invited presentation at E-Commerce Executive Education Program, Seoul National University, October 2001.
- “Designing Knowledge Environments for Virtual Organizations” An invited presentation at the Annual IBM Global Service Academic Conference, August 2001.
- “Creation and Sharing of Distributed Knowledge,” Research and Technology Forum, Glenn Research Center, NASA, Cleveland, OH, August 2001.
- “Knowledge in Organizations,” Executive Doctoral Program at the Weatherhead School of Management, August 2001.
- “National Culture and Knowledge Management,” Andersen Consulting, November 2000.
- “IT Infrastructure: The New High for E-Opportunity,” Commentator at NorTech Summit Meeting, Cleveland, OH, October 2000.
- “Knowledge Dynamics in Organizations,” Department Research Seminar, Information Systems Department, Brunel University, UK, August 2000.
- “Knowledge in Organizations,” Executive Doctoral Program at the Weatherhead School of Management, May 2000.
- “IS Research on Virtual Teams,” IS Research Seminar at Seoul National University, May 1999.
- “Creating Networked Organization,” Special Topics in Management, Seoul National University, May 1999.
- “Structuration Theory and IS Research,” Doctoral IS Research Seminar at Seoul National University, May 1999.
- “Social Construction of Users’ Beliefs of Groupware,” IS Research Seminar at Korean Advanced Institute of Technology, May 1999.
- “Individuals and organizations in knowledge-based society,” Handong University, Korea, May 1999.
- “Forging into a wired wilderness,” University Center for Innovations in Teaching and Education, Spring 1999.
- “Virtual teams,” Joint Doctoral Research Seminar at Harvard Business School and Robert H. Smith School of Business, University of Maryland, Spring 1997.
- “IS and Career Path,” ‘96 Open House of Information Systems Society at University of Maryland at College Park, Spring 1996.
- “New Trends in IS research in U.S.,” IS Research Seminar at the Graduate Business School, Seoul National University, Korea, Summer 1995
- “IS and Career Path,” ‘95 Open House of Information Systems Society at University of Maryland at College Park, Spring 1995.

## **Exhibitions**

- Envisioning the Future: Design + Business, a collaborative exhibition as a part of “Simon Denny: The Founder’s Paradox”, Museum of Contemporary Art in Cleveland, Feb 16, 2018 – June 10, 2018.

## **Honors and Awards**

- Association of Information Systems Fellow Award, 2018.
- The 52 Smartest People in Philadelphia, Philadelphia Magazine, 2012.
- Best Research-in-Progress Award, International Conference of Information Systems, 2012.
- Dean's Research Roundtable, Fox School of Business, 2012.
- Musser Award for Excellence in Leadership for Research, Fox School of Business, 2011.
- Best Paper Award, International Conference of Information Systems, 2011.
- Ranked #1 Worldwide in Research Productivity in 2011, Association of Information Systems.
- Best Published Paper, OCIS Division of the Academy of Management, 2008.
- Dean's Research Honor Roll, Fox School of Business & Management, 2007, 2009, 2011, 2012.
- Runner-up for the Best Conference Paper, ENTER 2008.
- Researcher of the Year, MIS Department, Fox School of Business & Management, 2008, 2009, 2011.
- Lewis-Progressive Professor of Management, Weatherhead School of Management, 2003-2005.
- Glennan Fellow, University Center for Innovation in Teaching and Education, Case Western Reserve University, 2003.
- Walter Nord Grant, University Center for Innovation in Teaching and Education, Case Western Reserve University, 1998.
- Runner-up for the best paper award, Hawaiian International Conference on Systems Sciences, 1998.
- Ernst & Young/ICIS Doctoral Consortium, Amsterdam, Netherlands, December 1995.
- Frank T. Paine Doctoral Award for Academic Achievement, Maryland Business School, April 1995.
- Top Graduate, Graduate School of Business & Administration, Seoul National University, February 1991.

## TEACHING

### Degree Program Courses

#### Case Western Reserve University

- Designing Complex Socio-technical Systems (DM Seminar)
- Leading by Design (EMBA Core)
- Managing as Designing (EDM Seminar)
- Introduction to Management Information Systems (MBA Requirement)
- In an iPod World: Learning and organizing in the networked world (Undergraduate SAGES course)
- Managing Corporate Knowledge (MBA Elective)
- Systems Analysis and Design (Undergrad Requirement)
- Business Telecommunication (Undergrad Elective)
- Decision and Management Support Systems (Undergraduate Elective)
- IT and Corporate Transformation (MBA Elective)
- Decision and Information (MBA/MSMIS Elective)
- Advances in Information Technologies (MBA/MSMIS Elective)
- Managing Electronic Teams in Global Economy (MBA Elective)

#### Temple University

- Leading by Design (MBA elective)
- Designing Urban Digital Start-ups (MBA and Undergraduate elective)
- Information Technology Policy, Strategy and Management (MBA elective)
- Designing Innovation in an iPod world (MBA elective)
- Research seminar in Information Systems: An Organizational Perspective (PhD)
- Computing in the 21<sup>st</sup> Century (Undergraduate elective)
- Information Systems Innovation (Undergraduate elective)
- Scientific Inquiry of Management Research (PhD and EDBA core)

### PhD Dissertation Committees

#### Dissertation Chair

- Sungyong Um (2016), Management Information Systems, Temple University
- Zhewei Zhang (2016), Management Information Systems, Temple University
- Doug Schutz (2013), Management Information Systems, Temple University.
- Yusun Jung (2010), Information Systems, Co-chair with Richard Boland, Case Western Reserve University.
- Nicholas Berente (2008), Information Systems, Co-Chair with Kalle Lyytinen, Case Western Reserve University (won Best Dissertation Award at ICIS 2010).

- Nikhil Srinivasan, DBA, Information Systems Department, Co-chair with Kalle Lyytinen, Case Western Reserve University.
- Zixing Shen, (2008), Information Systems, Co-chair with Kalle Lyytinen, Case Western Reserve University.
- Prasert Kanawattanachai (2002), Case Western Reserve University.

#### Dissertation Committees

- Varun Jagaraj (2019), Designing Sustainable Systems, Case Western Reserve University.
- Aron Lindberg (2015), Information Systems, Case Western Reserve University.
- Jae Park, (2013), Information Systems, Case Western Reserve University.
- James Gaskin (2012), Information Systems, Case Western Reserve University.
- David Tilson, (2008), Information Systems, Case Western Reserve University.
- Uri Gal, (2007), Information Systems, Case Western Reserve University.
- Ryan Baxter, (2007), Information Systems, Case Western Reserve University.
- Elizabeth Christine Stubbs (2004), Case Western Reserve University.
- Rama Bhalla (2002), Case Western Reserve University.
- Kevin Gallagher (2001), Case Western Reserve University.
- Alex Citurs (2001), Case Western Reserve University.
- Hee-Dong Yang (1999), Case Western Reserve University.

#### **Executive Education**

- “Leading digitalization by design,” 4-week on-line program, 2018.
- “Digital Strategy: Transforming Your Business To Deliver Value through Digital Technology,” 1-day session for the Weatherhead Affiliate Program 2018.
- “Designing Innovation DNA in Your Organization,” 1-day session for the Weatherhead Affiliate Program 2018.
- “Building A Creative Platform for Sustainable Innovation,” 1-day session for the Weatherhead Affiliate Program 2017.
- “Beyond Design Thinking: Creating Strategic Design Capability,” 1-day session for the Weatherhead Affiliate Program, 2014-2017.
- “Enhancing the Customer Experience Through Service Innovation Design,” 1-day session for the Weatherhead Affiliate Program, 2014 - 2015
- “Designing Inquiry for Community Engagement,” 2-day workshop for Knight Foundation, 2011.
- “Designing Thinking for Creativity, Innovation and Transformation,” 2-day workshop for AACSB, 2011, 2012, 2013 (Singapore), 2014.
- “Business Design,” 2-day session for Center for Design+Innovation, 2011 – 2016.
- “Innovation by Design”, 2-day session for the Weatherhead Affiliate Program, 2006 – 2013.
- “Managing Global Virtual Teams”, 1-day session for the Weatherhead Affiliate Program, 2007 - 2010.
- “Innovation by Design,” Custom Executive Education Program for Scottish Enterprise (2007 &

- 2010), American Greetings (2010), Kirtland Capital (2006), Moen (2006), Bendix (2006).
- “Designing Knowledge Management Systems through AI”, Custom Executive Education Program for E&Y Center for Business Knowledge, April 2005.
  - “Using Technology for Competitive Advantage,” 1-day session for the Weatherhead Affiliate Program, February 2005.
  - “Digital Strategy in Knowledge Economy,” Half-day session for the E-Commerce Executive Education Program, Seoul National University, 2002 - 2003.
  - “Managing Virtual Teams,” Half-day session for Alcoa Corporate University Program, Weatherhead Executive Education, February 2003
  - “Managing Corporate Knowledge in Digital Economy,” 1-day session for the Weatherhead Affiliate Program, February 2002.
  - “Network Technology and New Organizations: Frontiers for E-Business,” Half-day session for the E-Commerce Executive Education Program, Seoul National University, October 2001.
  - “Creating Networked Organization: Opportunities and Challenges,” 1-day session for the Weatherhead Affiliate Program, February 2001.
  - “Creating Collaborative Environments Using Information Technology,” 1-day session for the Weatherhead Affiliate Program, April 1999.

## SERVICE

### Referee for:

- MIS Quarterly
- Management Science
- Academy of Management Journal
- Journal of Strategic Information Systems
- Database
- International Journal of Human-Computer Studies
- Journal of Management Information Systems
- Hawaii International Conference on Systems Sciences
- International Conference on Information Systems
- Americas Conference on Information Systems
- Journal of Management Education
- Social Science and Humanities Research Council on Canada
- National Science Foundation

### Professional Organizations

- Elected as President and Vice President (twice), Korean Chapter of Association for Information Systems
- Elected in the executive leadership position for the OCIS Division of the Academy of Management (5-year service including Division Program Chair and Division Chair), 2012-2016

### Membership:

- Academy of Management
- Association for Information Systems
- INFORMS

### Administration and Committee Assignments, Case Western Reserve University

- Founder and Faculty Director, xLab, Weatherhead School of Management, 2018 – present.
- Faculty Director, Design & Innovation Initiative, Weatherhead Executive Education, 2016-present.
- Member, Appointment Committee, 2016 – present.
- Director, PhD Program of Design & Innovation Department, 2016-2018.
- Member, Dean's taskforce on globalization strategy, 2005.
- Member, Faculty Advisory Committee on IT for Education and Research, 2005 – 2006.
- Member, Faculty Council, Weatherhead School of Management, 2004 – 2006.
- Member, Professional Degree Program Committee, Weatherhead School of Management, 2004 – 2005.
- Member, Search Committee for CIO, Weatherhead School of Management, 2003.
- Member, Dean's ad hoc committee on information technology strategy, Weatherhead School of Management, 2002.
- Member, Research Committee, Weatherhead School of Management, 2001- 2003.
- Member, Search Committee for Vice President of Information Services, Case Western Reserve University, 2000-2001.
- Member, Campus Computing Committee, Case Western Reserve University, 1998-2001.

- Member, Dorney Grant Proposal Committee, Weatherhead School of Management, 2000 (received \$1,500,000 grant from Cleveland Foundation).
- Member, Dean's taskforce on e-Learning, Weatherhead School of Management, 1999-2000.
- Doctoral Program Coordinator, Department of Information Systems, Weatherhead School of Management, 1998-2000.

#### **Administration and Committee Assignments, Temple University**

- Member, Fox School P&T committee, 2010 – present.
- Director, PhD. program in MIS, 2006 – 2012.
- Member, PhD program committee & core faculty, 2006 – 2012.
- Member, Reaccreditation Review Task Force, 2007 – 2008.
- Member, PhD. program reengineering committee, 2006.

#### **Other Activities**

- Board of Directors, Museum of Contemporary Art in Cleveland, 2018 – present.
- Overseas Advisory Fellow, Samsung Economic Research Institute, Korea, 2012 - 2017.
- Board of Directors, Jlink Consulting Inc., Solon, OH, 2000-2001.
- Member, Technology Committee, Bethel Christian Academy, Parma Heights, OH, 2000-2001.