



PhD Course

AIS SIGDITE PhD Research Seminar on Digital Innovation, Transformation and Entrepreneurship (DITE)

COURSE COORDINATORS

Professor Youngjin Yoo & Professor Jan Recker

TIME

Every Monday 9.00 – 11:30am EST, between February 5 and April 22.
Total duration: Ten sessions of 2.5 hours each, plus preparation and paper development.

CREDIT POINTS

For the Graduate Program at the Faculty of Business Administration: 5 credit points in “specialization”.

REGISTRATION

Class size is limited. To register your interest, please fill out [this form](#). You will need to include a short recommendation letter from your advisor or supervisor to apply. The deadline for application is **31 January 2024**.

SEMINAR OBJECTIVES

This doctoral seminar on digital innovation, transformation, and entrepreneurship is designed to help doctoral students:

- become familiar with the main research streams and contributing scholars in digital innovation, transformation, and entrepreneurship;
- develop a personal perspective on these topics; and
- explore their relationship to other intellectual streams in management disciplines such as information systems, operations, marketing, strategy and entrepreneurship.

In addition to covering a subset of the IS digital innovation, transformation, and entrepreneurship research literature, the seminar also covers relevant foundations of innovation, transformation, entrepreneurship scholarship that will assist the participants in developing and writing a seminar paper.



MEETING STRUCTURE

In preparation for each meeting, students need to review and synthesize the assigned readings. Each student should be prepared to deliver a short, provocative “conversation starter” that integrates the readings and shares their personal insights. In addition to a critical and/or appreciative review of existing work, the seminar emphasizes constructive discussions aiming toward designing state of the art research studies that build on and extend the related current body of knowledge. Conversations should aim to start a lively discussion. You should raise interesting questions, take sides, and spark a debate. It is also an opportunity to formulate new insights and rudimentary ideas.

ASSESSMENT

1. Class preparation and participation in conversation (individual, oral, 30%, assessment during the course)
2. Critical review of readings on digital innovation, transformation, entrepreneurship (individual, oral, 20%, assessment during the course)
3. Submission of seminar paper of at least seven pages [Times New Roman, font size 12, double-spaced] (individual, written, 50%, submission after the course)

COURSE CONTENT & SCHEDULE

Week 1

Date/Time: February 5, 9.30am – 12:00pm EST

Topic(s): What is Digital Innovation, what is an IS perspective on Digital Innovation, What are Different Approaches to Research Digital Innovation

Seminar Coordinator: [Youngjin Yoo](#)

Readings:

Classics

- Garud, R., Tuertscher, P., & Van de Ven, A. H. (2013). Perspectives on Innovation Processes. *Academy of Management Annals*, 7(1), 775-819.
- Hargadon, A. B., & Douglas, Y. (2001). When Innovations Meet Institutions: Edison and the Design of the Electric Light. *Administrative Science Quarterly*, 46(3), 476-501.



- Barley, S. R. (1986). Technology as an Occasion for Structuring: Evidence from Observations of CT Scanners and the Social Order of Radiology Departments. *Administrative Science Quarterly*, 31(1), 78-108.
- An IS Perspective on Digital Innovation
- Yoo, Y., Henfridsson, O., & Lyytinen, K. (2010). The New Organizing Logic of Digital Innovation: An Agenda for Information Systems Research. *Information Systems Research*, 21(4), 724-735.
- Fichman, R. G., Dos Santos, B. L., & Zheng, Z. (2014). Digital Innovation as a Fundamental and Powerful Concept in the Information Systems Curriculum. *MIS Quarterly*, 38(2), 329-353.
- Kohli, R., & Melville, N. P. (2019). Digital Innovation: A Review and Synthesis. *Information Systems Journal*, 29(1), 200-223.
- Nambisan, S., Lyytinen, K., Majchrzak, A., & Song, M. (2017). Digital Innovation Management: Reinventing Innovation Management Research in a Digital World. *MIS Quarterly*, 41(1), 223-238.

Week 2

Date/Time: February 12, 9.30am – 12:00pm EST

Topic(s): TBA

Seminar Coordinator: TBAD

Readings:

Week 3

Date/Time: February 19, 9.30am – 12:00pm EST

Topic(s): Digital Entrepreneurship

Seminar Coordinator: [Jan Recker](#)

Readings:

Classic entrepreneurship theories:



- Shane, S. A. (2000). Prior Knowledge and the Discovery of Entrepreneurial Opportunities. *Organization Science*, 11(4), 448-469.
- Alvarez, S. A., & Barney, J. B. (2007). Discovery and Creation: Alternative Theories of Entrepreneurial Action. *Strategic Entrepreneurship Journal*, 1(1-2), 11-26.
- Sarasvathy, S. D. (2001). Causation and Effectuation: Toward a Theoretical Shift from Economic Inevitability to Entrepreneurial Contingency. *Academy of Management Review*, 26(2), 243-263.
- Davidsson, P. (2015). Entrepreneurial Opportunities and the Entrepreneurship Nexus: A Re-Conceptualization. *Journal of Business Venturing*, 30(5), 674-695.
- Berglund, H., Bousfiha, M., & Mansoori, Y. (2020). Opportunities as Artifacts and Entrepreneurship as Design. *Academy of Management Review*, 45(4), 825–846.

The influence of digital technology on entrepreneurship theory

- Davidson, E. J., & Vaast, E. (2010). Digital Entrepreneurship and Its Sociomaterial Enactment 43rd Hawaii International Conference on System Sciences, Honolulu, Hawaii.
- Nambisan, S. (2017). Digital Entrepreneurship: Toward a Digital Technology Perspective of Entrepreneurship. *Entrepreneurship Theory and Practice*, 41(6), 1029-1055.
- von Briel, F., Davidsson, P., & Recker, J. (2018). Digital Technologies as External Enablers of New Venture Creation in the IT Hardware Sector. *Entrepreneurship Theory and Practice*, 42(1), 47-69.

Week 4

Date/Time: February 26, 9.30am – 12:00pm EST

Topic(s): Institutions and Digital Technologies

Seminar Coordinator: [Nick Berente](#)

Two Big Institutional Theory Papers:

- DiMaggio, P. J., & Powell, W. W. (1983). The iron cage revisited: Institutional isomorphism and collective rationality in organizational fields. *American sociological review*, 147-160.
- Meyer, J. W., & Rowan, B. (1977). Institutionalized organizations: Formal structure as myth and ceremony. *American journal of sociology*, 83(2), 340-363..



- **Diffusion and what most IS people think institutional theory is:**
- [Weak form] - Liang, H., Saraf, N., Hu, Q., & Xue, Y. (2007). Assimilation of enterprise systems: the effect of institutional pressures and the mediating role of top management. *MIS quarterly*, 59-87.
- [Strong form] - Angst, C. M., Wowak, K. D., Handley, S. M., & Kelley, K. (2017). Antecedents of information systems sourcing strategies in US hospitals: A longitudinal study. *MIS quarterly*, 41(4), 1129-1152.

- **How Youngjin and I (and others) use institutional theory:**
- Barley, S. R. (1986). Technology as an occasion for structuring: Evidence from observations of CT scanners and the social order of radiology departments. *Administrative science quarterly*, 78-108.
- Berente, N., & Yoo, Y. (2012). Institutional contradictions and loose coupling: Postimplementation of NASA's enterprise information system. *Information systems research*, 23(2), 376-396.

- **Digital Technologies and Institutions Readings:**
- Hinings, B., Gegenhuber, T., & Greenwood, R. (2018). Digital innovation and transformation: An institutional perspective. *Information and Organization*, 28(1).

Week 5

Date/Time: March 4, 9.30am – 12:00pm EST

Topic(s): Product development and digital innovation

Seminar Coordinator: [Harris Kyriakou](#)

Readings:

Week 6

Date/Time: March 11, 9.30am – 12:00pm EST

Topic(s): Artificial Intelligence @ Work

Seminar Coordinator: [Marleen Huysman](#)



Readings:

Week 7

Date/Time: March 18, 9.30am – 12:00pm EST

Topic(s): Web 3.0 technologies and digital innovation

Seminar Coordinator: [Ola Henfridsson](#)

Readings:

Week 8

Date/Time: March 25, 9.30am – 12:00pm EST

Topic(s): Digital transformation

Seminar Coordinator: [Lauri Wessel](#)

Readings:

Week 9

Date/Time: April 8, 9.30am – 12:00pm EST

Topic(s): Open Innovation

Seminar Coordinator: [Hila Lifshitz-Assaf](#)

Readings:

Week 10

Date/Time: April 22, 9.30am – 12:00pm EST



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Topic(s): Paper Development Workshop and Reflections

Seminar Coordinator: Youngjin Yoo & Jan Recker

Readings:

None: You will need to submit and present on your seminal paper drafts so we can all read and discuss them at the session.