

Baruch College, Zicklin School of Business
Ph.D. in Information Systems

CIS 86000 – INFORMATION SYSTEMS RESEARCH SEMINAR

Fall 2019

Monday 9:30am-11:30am

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This research seminar introduces students to various areas of research in the Information Systems field. For each area, students are expected to read, discuss, and present several papers, ranging from seminal studies to current ones. All students are expected to come to class ready to discuss all the papers critically. Some examples of what all students in the class should be ready to discuss at all times include:

1. What is the main theoretical basis for the study? Is it appropriate? If not, which would you use?
2. Describe the research design. Are there any limitations? Do you have alternative suggestions that would answer the same research questions?
3. Is the data analysis appropriate? Are there any statistical problems?
4. What are the main theoretical contributions? Are there any additional ones? Is the contribution significant enough?

WEEKLY ASSIGNMENTS:

In addition to having read all the papers for the week and be ready to discuss them, students will also be given individual assignments:

- Each week, one student will be assigned one paper to present to the class. The student is responsible for preparing and presenting a very quick summary of the paper and a more thorough critical review of it. The student should present a list of questions, comments, suggestions, and criticisms that will help lead the discussion of the paper. The presentation should be a maximum of 30 minutes, preferably closer to 20 minutes.
- In addition, each student will be assigned one paper each week for which (s)he will prepare a one-page (single-spaced) report where they will briefly answer the following questions:
 - o What do you think was the main theoretical contribution of the paper? Briefly discuss.
 - o Describe one thing in the paper/study that you thought was interesting/intriguing/different and explain why you thought so.
 - o Provide one suggestion of how another researcher (such as yourself) could create a new research study based on one or more of the contributions of the paper.

- What did you not understand from the paper? List any major questions you may have and we'll try to answer them in class.
- Students should email their one-page report to everyone in the class at least 24 hours before the class session. We will use them as starting points for our discussion.

FINAL PAPER

In addition to the weekly assignments, students are also required to write a full research paper proposal. The proposal must describe a study that is unique and thoroughly described. It should basically include everything that a final, publishable paper will include (introduction, theoretical discussion, full literature review, complete study design and methodology, expected data analysis method, potential theoretical contributions, and so on). Only the actual data analysis and discussion of actual results should be missing from the paper. Students should be able to complete the research after the completion of the class.

The topic of the final paper must be approved by me in advance.

Students will present the paper in class on the last session of the semester and will then respond to questions from the rest of the class. They will use the questions and comments to improve the final paper. The final version of the paper will be due to me by email **by December 11th at midnight**. Late submissions will not be accepted.

GRADE

Weekly assignments: 30%
 Final paper: 50%
 Class participation: 20%

COURSE OUTLINE

(Articles with an asterisk will be presented in class by the student assigned to them)

****WEDNESDAY 9:30am-11:30am** September 4th: Introduction**

Readings:

Barley, Stephen R. "When I Write My Masterpiece: Thoughts on What Makes a Paper Interesting," *Academy of Management Journal*, 2006, 49 (1), pp. 16-20

Starbuck, William H., "Why I Stopped Trying to Understand the Real World," *Organization Studies*, 2004, 25 (7), pp. 1233-1254

Optional:

“That's Interesting! Towards a Phenomenology of Sociology and a Sociology of Phenomenology”, Murray S. Davis, *Philosophy of the Social Sciences*, 1971 vol.1, pp.309-344

September 9th: The IS discipline – Publishing your research

Readings:

Dennis, A. R. and J. S. Valacich. “Conducting Research in Information Systems,” July 2001, *Communications of the AIS*, Vol. 7, No. 5

* Orlikowski, W. J. and Iacono, C. S. (2001) “Research Commentary: Desperately Seeking the ‘IT’ in IT Research – A Call to Theorizing the IT Artifact,” *Information Systems Research*, 12:2, pp. 121-134 **(Linmei)**

Grover, Varun and Lyytinen, Kalle. 2015. "New State of Play in Information Systems Research: The Push to the Edges," *MIS Quarterly*, (39: 2) pp.271-296 **(Yuqian and Sanghyun)**

Optional:

Watson, Richard T. (2014) "A Personal Perspective on a Conceptual Foundation for Information Systems," *Journal of the Association for Information Systems*: Vol. 15: Iss. 8, Article 1.

Available at: <http://aisel.aisnet.org/jais/vol15/iss8/1>

September 16th: IT and the user

Readings:

Davis, Fred D. “Perceived Usefulness, Perceived Ease of Use, and User Acceptance of Information Technology.” *MIS Quarterly*, September 1989, 13 (3), 319-340 **(Yuqian)**

* Koufaris, M., “Applying the Technology Acceptance Model and Flow Theory to Online Consumer Behavior,” *Information Systems Research*, (2002), Vol. 13, No. 2, pp. 205-223. **(Sanghyun)**

Venkatesh, Viswanath; Thong, James Y.L.; and Xu, Xin. 2012. "Consumer Acceptance and Use of Information Technology: Extending the Unified Theory of Acceptance and Use of Technology," *MIS Quarterly*, (36: 1) pp.157-178. **(Linmei)**

September 23rd: IT and the user

Readings:

Koufaris, M., “The Search for a New Identity: Post-Transplant Organ Recipients and the Internet” in Our Virtual World: The Transformation of Work, Play and Life via Technology, Chidambaram, L., and Zigers, I. (eds.), (2001), Idea Group Publishing, Hershey, PA, July 1999, pp. 219-233 **(Linmei)**

McKnight, D.H., Choudhury, V., and Kacmar C. "Developing and Validating Trust Measures for e-Commerce: An Integrative Typology," *Information Systems Research*, September 2002, vol. 13 no. 3, 334-359 (**Sanghyun**)

* Hampton-Sosa, William and Marios Koufaris, "The Effect of Web Site Perceptions on Initial Trust in the Owner Company," *International Journal of Electronic Commerce*, 2005, 10 (1), pp. 55-82 (**Yuqian**)

October 7th: IT and the user

Readings:

Kamis, A., M. Koufaris, and T. Stern, "Using an attribute-based DSS for user-customized products online: An experimental investigation," *MIS Quarterly*, (2008), Vol. 32, No. 1, pp. 159-177. (**Yuqian**)

Bhattacharjee A. and Lin, C.-P. "A Unified Model of IT Continuance: Three Complementary Perspectives and Crossover Effects," *European Journal of Information Systems* (24:4), 2015, pp. 216-235 (**Sanghyun**)

* Chen, C.-W., Koufaris, M (2015). "The Impact of Decision Support System Features on User Overconfidence and Risky Behavior." *European Journal of Information Systems*, 24(6), pp. 607-623 (**Linmei**)

****WEDNESDAY 9:30am-11:30am** October 16th: IT and the group**

Readings:

* Chidambaram, L. and Lai Lai Tung, "Is Out of Sight, Out of Mind? An Empirical Study of Social Loafing in Technology-Supported Groups," *Information Systems Research*, 2005, 16 (2), pp. 149-168 (**Sanghyun**)

Bo Xu, Donald R. Jones, Bingjia Shao "Volunteers' involvement in online community based software development," *Information & Management*, 2009, 46 (3), pp. 151-158 (**Linmei**)

Bayerl, Petra Saskia; Lauche, Kristina; and Astell, Carolyn. 2016. "Revisiting Group-Based Technology Adoption as a Dynamic Process: The Role of Changing Attitude-Rationale Configurations," *MIS Quarterly*, (40: 3) pp.775-784. (**Yuqian**)

Optional:

Pinsonneault, Alain and Heppel, Nelson "Anonymity in Group Support Systems Research: A New Conceptualization, Measure, and Contingency Framework", *Journal of Management Information Systems*, Vol. 14 No. 3, Winter 1998 , pp. 89 – 108

October 21st: IT and the group

Readings:

* Gallivan, Michael J. , Spitler, Valerie K. and Koufaris, Marios, "Does Information Technology Training Really Matter? A Social Information Processing Analysis of Coworkers' Influence on IT Usage in the Workplace," *Journal of Management Information Systems*, 2005, 22 (1), pp. 153-192 **(Yuqian)**

Levina, Natalia, "Collaborating on Multiparty Information Systems Development Projects: A Collective Reflection-in-Action View," *Information Systems Research*, 2005, 16 (2), pp. 109-130 **(Sanghyun)**

Ali E. Akgün, Mumin Dayan, Anthony Di Benedetto, "New product development team intelligence: Antecedents and consequences," *Information & Management*, 2008, 45 (4), pp. 221-226 **(Linmei)**

October 28th: IT and the organization

Readings:

Thomas W. Malone, Joanne Yates, and Robert I. Benjamin. "Electronic Markets and Electronic Hierarchies." *Communications of the ACM*, 30 (6), June 1987, 484-497 **(Yuqian)**

Gurbaxani and Whang, "The Impact of Information Systems on Organizations and Markets," *CACM*, 34, 1, (1991) **(Sanghyun)**

* Dennis, Alan R.; Minas, Randall K.; and Lockwood, Nicholas S. (2016) "Mapping the Corporate Blogosphere: Linking Audience, Content, and Management to Blog Visibility," *Journal of the Association for Information Systems*: Vol. 17 : Iss. 3 , Article 2. Available at: <http://aisel.aisnet.org/jais/vol17/iss3/2> **(Linmei)**

****10:00am-12:00pm** November 4th: IT and the organization**

Readings:

Markus, M. L. and Robey, D. (1988). "Information Technology and Organizational Change: Causal Structure in Theory and Research," *Management Science*, Volume 34, Number 5, pp. 583-598 **(Yuqian)**

Orlikowski, W.J. and Robey, D. "Information Technology and the Structuring of Organizations," *Information Systems Research*, Vol. 2(2), June 1991 **(Linmei)**

* Wu, Shelly P.J; Straub, Detmar W.; and Liang, Ting-Peng. 2015. "How Information Technology Governance Mechanisms and Strategic Alignment Influence Organizational Performance: Insights from a Matched Survey of Business and IT Managers," *MIS Quarterly*, (39: 2) pp.497-518. **(Sanghyun)**

November 11th: IT and organization

Readings:

Moody, Gregory; Siponen, Mikko; and Pahlila, Seppo. 2018. "Toward a Unified Model of Information Security Policy Compliance," *MIS Quarterly*, (42: 1) pp.285-311.

(Linmei)

Zhu, Kevin and Kenneth L. Kraemer, "Post-Adoption Variations in Usage and Value of E-Business by Organizations: Cross-Country Evidence from the Retail Industry," *Information Systems Research*, 2005, 16 (1), pp. 61-84 **(Sanghyun)**

* Ramesh, B., Cao, L., Kim, J. et al. (2017) "Conflicts and complements between eastern cultures and agile methods: an empirical investigation," *European Journal of Information Systems*, 26:2, pp. 206-235. **(Yuqian)**

November 18th: IT and organizational strategy

Readings:

Sabherwal, Rajiv; Sabherwal, Sanjiv; and Havakhor, Taha. 2019. "How Does Strategic Alignment Affect Firm Performance? The Roles of Information Technology and Environmental Uncertainty," *MIS Quarterly*, (43: 2) pp.453-474. **(Sanghyun)**

* Henry E Newkirk, Albert L Lederer, Alice M Johnson. "Rapid business and IT change: drivers for strategic information systems planning?" *European Journal of Information Systems*. 2008. Vol. 17, Iss. 3; p. 198 **(Linmei)**

Queiroz, M. (2017) "Mixed results in strategic IT alignment research: a synthesis and empirical study," *European Journal of Information Systems*, 26:1, pp. 21-36 **(Yuqian)**

Optional:

Sabherwal, Rajiv and Yolande E. Chan. "Alignment Between Business and IS Strategies: A Study of Prospectors, Analyzers, and Defenders." *Information Systems Research*, 12 (1), March 2001, 11-33

November 25th: IT and markets, industries, society

Readings:

Walsham, Geoff "Cross-Cultural Software Production and Use: A Structural Analysis," *MIS Quarterly*, 2002, 26 (4), pp. 359-380 **(Linmei)**

Driedonks, Caroline, Shirley Gregor, Arjen Wassenaar, and Eric van Heck, "Economic and Social Analysis of the Adoption of B2B Electronic Marketplaces: A Case Study in the Australian Beef Industry," *International Journal of Electronic Commerce*, 2005, 9 (3), pp. 49-72 **(Yuqian)**

* Katzy, B., Sung, G. & Crowston, K. (2016) "Alignment in an inter-organisational network: the case of *ARC transistance*," *European Journal of Information Systems*, 25:6, pp. 553-568 (**Sanghyun**)

December 2nd: IT and markets, industries, society

Readings:

* Teo, H. H., K. K. Wei, and I. Benbasat, "Prediction Intention to Adopt Interorganizational Linkages: An Institutional Perspective," *MIS Quarterly*, 2003, 27 (1), pp. 19-49 (**Yuqian**)

Chiasson, Mike W. and Elizabeth Davidson, "Taking Industry Seriously in Information Systems Research," *MIS Quarterly*, 2005, 29 (4), pp. 591-605 (**Linmei**)

Srivastava, Shirish C.; Teo, Thompson S.H; and Devaraj, Sarv. 2016. "You Can't Bribe a Computer: Dealing with the Societal Challenge of Corruption Through ICT," *MIS Quarterly*, (40: 2) pp.511-526. (**Sanghyun**)

December 9th: Final Research Proposal presentations

NOTES:

1. The following article can be used to guide students who wish to write literature review papers:

Webster, J. and Watson R. T., "Analyzing the Past to Prepare for the Future: Writing a Literature Review." (2002), *MIS Quarterly*, 26 (2), pp. xiii-xxiii

2. The following article provides a research agenda in IS for big data research:

Abbasi, Ahmed; Sarker, Suprateek; and Chiang, Roger H.L. (2016) "Big Data Research in Information Systems: Toward an Inclusive Research Agenda," *Journal of the Association for Information Systems*: Vol. 17 : Iss. 2 , Article 3. Available at: <http://aisel.aisnet.org/jais/vol17/iss2/3>

3. The following article describes how crowdsourcing on Amazon's Mechanical Turk can be used for recruitment of study subjects:

Mason W. and Suri S. "Conducting Behavioral Research on Amazon's Mechanical Turk," *Behav Res Methods* (2012), 44(1), pp. 1-23