

Publications of the Minnesota GDSS Project

As of May 10, 2008

Undergraduate and Master's Theses (3)

Belknap, Sara L. (1988). *Computers and anxiety: The effects of a group decision support system on male and female conflict interaction styles and leadership*, Undergraduate Honors Thesis, University of Minnesota.

Pryor, L. (1994). *A fantasy theme analysis of two small groups with culturally mediated technology*. Master's Thesis, University of Minnesota.

Kuhn, T. (1996). *The impact of conflict management on decision-making effectiveness in organizational work groups*. Master's Thesis, University of Minnesota.

Doctoral Dissertations (11)

Gallupe, R. B. (1985). *The impact of task difficulty on the use of a group decision support system*. Doctoral Dissertation, University of Minnesota.

Watson, R. (1987). *A study of group decision support system use in three and four-person groups for a preference allocation decision*. Doctoral Dissertation, University of Minnesota

Zigurs, I. (1987). *The effect of computer-based support on influence attempts and patterns in small group decision-making*. Doctoral Dissertation, University of Minnesota.

McBride, D. J. (1988). *An exploration of team information processing in a dynamic group choice task involving uncertainty*. Doctoral Dissertation, University of Minnesota.

Sambamurthy, V. (1989). *A comparison of two levels of computer-based support for communication and conflict management in equivocality reduction during stakeholder analysis*. Doctoral Dissertation, University of Minnesota.

Niederman, F. (1990). *Influence of computer-based support on group process and outcomes in problem formulation*. Doctoral Dissertation, University of Minnesota.

Shannon, Dale (1990). *A comparison of supported and nonsupported negotiations under different degrees of time pressure*. Doctoral Dissertation, University of Minnesota.

Joo Eng Lee-Partridge (1992). *An empirical investigation of task and interactional facilitation intervention in the use of a group decision support system*. Doctoral Dissertation, University of Minnesota.

Limayem, M. (1992). *Automating decision guidance: Design and impacts in a group decision support environment*. Doctoral Dissertation, University of Minnesota

Vician, C. (1994). *Coordination of interdependent activities: The impacts of role assignment and rotation on the use of a group decision support system*. Doctoral Dissertation, University of Minnesota.

Jackson, M. H. (1994). *Application of an integrated definition of "artifact" through historical analysis of communication based technologies to support group communication*. Doctoral Dissertation, University of Minnesota.

Proceedings Publications (17)

DeSanctis, G., & Dickson, G. W. (1987). GDSS software: A shell system in support of a program of research. In E. A. Stohr, L. Hoevel, L. Hynes, Y. Chu & A. Speckhard (Eds.) *Proceedings of the 20th Annual Hawaii International Conference on System Sciences* (Vol. 1, pp. 131-140). North Hollywood, CA: Western Periodicals.

DeSanctis, G., Sambamurthy, V., & Watson, R. T. (1988). A software environment for GDSS research. In S. Weber (Ed.) *DSS-88 Transactions: Eighth International Conference on Decision Support Systems* (pp. 3-12). Providence, RI: Institute of Management Sciences. [Technology Design]

Poole, M.S., Holmes, M., & DeSanctis, G. (1988). Conflict management and group decision support systems. *Proceedings of the Second Conference on Computer-Supported Cooperative Work* (pp. 227-243). Portland, Oregon: ACM Press. [Lab Study: Process]

Poole, M. S., & DeSanctis, G. (1989). Use of group decision support systems as an appropriation process. In J.F. Nunamaker (Ed.) *Proceedings of the Twenty-Second Annual Hawaii International Conference on System Sciences* Vol. IV (pp. 149-157). Los Alamitos, CA: IEEE Computer Society Press. [Lab Study: Process]

Zigurs, I., DeSanctis, G., & Billingsley, J. (1989). Attitudinal development in computer-supported meetings: An exploratory study. In R. Blanning & D. King (Eds.) *Proceedings of the Twenty-Second Annual Hawaii International Conference on System Sciences*, Vol. III (pp. 353-358). Los Alamitos, CA: IEEE Computer Society Press. [Lab Study: Process]

Dickson, G. W., Robinson, L., Heath, R., & Lee, J. E. (1989). Observations on GDSS interaction: Chauffeured, facilitated, and user-driven systems. In R. Blanning & D. King (Eds.) *Proceedings of the Twenty-Second Annual Hawaii International Conference on System Sciences*, Vol. III (pp. 337-343). Los Alamitos, CA: IEEE Computer Society Press. [Lab Study: Process: Technology Design]

DeSanctis, G., D'Onofrio, M., Sambamurthy, V., & Poole, M.S. (1989). Comprehensiveness and restrictiveness in group decision heuristics: Effects of computer support on consensus decision-making. In J.I. DeGross, J.C. Henderson, & B.R. Konsynski (Eds.) *Proceedings of the Tenth Annual International Conference on Information Systems* (pp. 131-140). New York: ACM Press [Lab Study: Outcomes]

Sambamurthy, V. & DeSanctis, G. (1990). An experimental evaluation of GDSS effects on group performance during stakeholder analysis. In J.F. Nunamaker (Ed.) *Proceedings of the Twenty-Third Annual Hawaii International Conference on System Sciences*, Vol. III (pp. 79-89). Los Alamitos, CA: IEEE Computer Society Press. [Lab Study: Outcomes]

DeSanctis, G., & Poole, M. S. (1991). Understanding the differences in collaborative system use through appropriation analysis. In J.F. Nunamaker (Ed.) *Proceedings of the Twenty-Fourth International Conference on System Sciences*, Vol. III (pp. 547-553). Los Alamitos, CA: IEEE Computer Society Press. [Lab Study: Process]

Dickson, G. W., DeSanctis, G., Poole, M. S., & Limayem, M. (1991). Multicriteria modeling and 'what if' analysis as conflict management tools for group decision making. In I. Ziguers (Ed.) *DSS-91: Eleventh International Conference on Decision Support Systems* (pp. 133-141). Providence, RI: Institute of Management Sciences. [Lab Study: Outcomes]

DeSanctis, G., Poole, M. S., Lewis, H., & Desharnais, G. (1991). Using GDSS to improve the quality team process: Some initial observations from the IRS-Minnesota project. In J.F. Nunamaker (Ed.) *Proceedings of the Twenty-Fourth International Conference on System Sciences*, Vol. III (pp. 750-757). Los Alamitos, CA: IEEE Computer Society Press. [Field Study]

Poole, M. S., DeSanctis, G., Kirsch, L., & Jackson, M. (1991). An observational study of everyday use of a group decision support system. In J.F. Nunamaker (Ed.) *Proceedings of the Twenty-Fourth International Conference on System Sciences*, Vol. III. Los Alamitos, CA: IEEE Computer Society Press. [Field Study]

Vician, C., DeSanctis, G., Poole, M. S., & Jackson, B. (1992). Using group technologies to support the design of 'lights out' computing systems: A case study. *Proceedings of the 1992 IFIP Conference*, Minneapolis, MN. [Field Study]

Limayem, M. & DeSanctis, G. (1993). Automating decision guidance in a group decision environment. In J. DeGross, R. P. Bostrom, & D. Robey (Eds.) *Proceedings of the Fourteenth Annual International Conference on Information Systems* (pp. 157-168). New York: Association for Computing Machinery.

Wanninger, L. A., & Dickson, G. W. (1992). GRIP: Group requirement identification process: The integration of GDSS technology into the systems development life cycle. In *Proceedings of the Twenty-Fifth Hawaii International Conference on System Sciences*. Los Alamitos, CA: IEEE Computer Society Press. [Field Study]

Dickson, G. W., DeSanctis, G., Poole, M. S., & Jackson, B. M. (1997). Help or hindrance? The role of communication technologies in changing organizational form. In L. N. Dosier & J. B. Keys (Eds.), *Conference Best Paper Proceedings, Academy of Management* (pp. 303-307). [Field Study]

Poole, M. S., Jackson, M., Kirsch, L., & DeSanctis, G. (1998). Alignment of system and structure in the implementation of group decision support systems. In S. J. Havlovic (Ed.), *Conference Best Paper Proceedings, Academy of Management*. (CD-ROM) [Lab Study: Process]

Journal Publications (29)

DeSanctis, G., & Gallupe, B. (1985). Group Decision Support Systems: A New Frontier. *Database, 16(2)*, 2-10. [Theory; Technology Design]

DeSanctis, G., & Gallupe, R. B. (1987). A foundation for the study of group decision support systems. *Management Science, 33(5)*, 589-609. [Theory; Technology Design]

DeSanctis, G., Sambamurthy, V., & Watson, R. T. (1987). Computer-supported meetings: Building a research environment. *Large Scale Systems, 13(1)*, 43-59. [Technology Design]

Gallupe, R. B., DeSanctis, G., & Dickson, G. (1988). Computer-based support for group problem finding: An experimental investigation." *MIS Quarterly, 12(2)*, 277-296. [Lab Study: Outcomes]

Watson, R. T., DeSanctis, G., & Poole, M. S. (1988). Using GDSS to facilitate group consensus: Some intended and unintended consequences, *MIS Quarterly, 12(3)*, 463-478. [Lab Study: Outcomes]

Zigurs, I., Poole, M. S., & DeSanctis, G. (1988). A study of influence in computer-mediated group decision making. *MIS Quarterly, 12(4)*, 625-644. [Lab Study : Process]

Zigurs, I. (1989). Interaction analysis in GDSS research: Description of an experience and some recommendations. *Journal of Decision Support Systems, 5*, 233-242. [Lab Study: Process]

Hiltz, S.R., Duffner, D., Holmes, M., & Poole, M.S. (1989). Distributed group support systems: Social dynamics and design dilemmas. *Organizational Computing, 1*, 135-160. [Lab Study: Process]

Zigurs, I., DeSanctis, G., & Billingsley, J. (1991). Adoption patterns and attitudinal development in computer-supported meetings: An exploratory study with SAMM. *Journal of Management Information Systems, 7*, 51-70. [Lab Study: Process]

Poole, M. S., Holmes, M., & DeSanctis, G. (1991). Conflict management in a computer-supported meeting environment. *Management Science, 37(8)*, 926-953. [Lab Study: Process]

- Sambamurthy, V. & Poole, M. S. (1992). The effects of variations in capabilities of GDSS designs on management of cognitive conflict in groups. *Information Systems Research*, 3, 224-251. [Lab Study: Process]
- Poole, M. S., & DeSanctis, G. (1992). Microlevel structuration in computer-supported group decision-making. *Human Communication Research*, 19(1), 5-49. [Lab Study: Process]
- DeSanctis, G., Poole, M. S., Desharnais, G., & Lewis, H. (1992). Using computing to facilitate the quality improvement process: The IRS-Minnesota project. *Interfaces*, 21, 23-36. [Field Study]
- DeSanctis, G., Poole, M. S., Lewis, H., & Desharnais, G. (1992). Using computing in quality team meetings: Some initial observations from the IRS-Minnesota project. *Journal of Management Information Systems*, 8(3), 7-26. [Field Study]
- Poole, M. S., Holmes, M., Watson, R. T., & DeSanctis, G. (1993). Group decision support systems and group communication: A comparison of decision-making in computer-supported and nonsupported groups. *Communication Research*, 10(2), 176-213. [Lab Study: Process]
- DeSanctis, G., Poole, M. S., Dickson, G. W., & Jackson, B. M. (1993). An interpretive analysis of team use of group technologies. *Journal of Organizational Computing*, 3(1), 1-29. [Field Study]
- Sambamurthy, V., Poole, M. S., & Kelly, J. (1993). Effects of level of sophistication of a group decision support system on group decision-making processes. *Small Group Research*, 24, 523-546. [Lab Study: Process]
- Dickson, G. W., Lee-Partridge, J. & Robinson, L. (1993). Exploring modes of facilitative support for GDSS technology. *MIS Quarterly*, 17, 173-194. [Lab Study: Outcomes and Process]
- DeSanctis, G., Snyder, J.R., & Poole, M. S. (1994). The meaning of the interface: A functional and holistic evaluation of a meeting software system. *Decision Support Systems: The International Journal*, 11, 319-335. [Technology Design]
- DeSanctis, G., & Poole, M. S. (1994). Capturing the complexity in advanced technology use: adaptive structuration theory. *Organization Science*, 5(2), 121-147.[Theory]
- Sambamurthy, V. & Chin, W. W. (1994). The effects of group attitudes toward alternative GDSS designs on the decision-making performance of computer-supported groups. *Decision Sciences*, 25, 215-241. [Lab Study: Outcomes and Process]
- Poole, M. S., & Holmes, M. E. (1995). Decision development in computer-assisted group decision making. *Human Communication Research*, 22, 90-127.[Lab Study: Process]

Niederman, F., & DeSanctis, G. (1995). The impact of a structured-argument approach on group problem formulation. *Decision Sciences*, 26(4), 451-474. [Lab Study: Outcomes and Process]

Dickson, G. W., Lee-Partridge, J, Limayem, M., and DeSanctis, G. (1996). Facilitating computer-supported meetings: a cumulative analysis in a multiple criteria task environment, *Group Decision and Negotiation*, 5(1), 51-72. [Lab Study: Outcomes]

Vician, C., & DeSanctis, G. (2000). The impact of role training in a user-driven group support system environment. *Group Decision and Negotiation*, 9(4). [Lab Study: Outcomes]

Limayem, M., & DeSanctis, G. (2000). Providing decisional guidance for multicriteria decision making in groups. *Information Systems Research*, 11(4), 386-401. [Lab Study: Outcomes]

Kuhn, T., & Poole, M. S. (2000). Do conflict management styles affect group decision-making? Evidence from a longitudinal field study. *Human Communication Research*, 26, 558-590. [Lab Study: Process]

Jackson, M. H., & Poole, M. S. (2003). Idea generation in naturally-occurring contexts: Complex appropriation of a simple procedure. *Human Communication Research*, 29, 560-591. [Lab Study: Process]

Limayem, M. (2006). Human versus automated facilitation in the GDSS context. *The DATA BASE for Advances in Information Systems*, 37, 156-166. [Lab Study: Outcomes]

Limayem, M., Banerjee, P. & Ma, L. (2006). Impact of GDSS: Opening the black box. *Decision Support Systems*, 42, 945-957.[Lab Study: Process]

Book Chapters (17)

DeSanctis, G. (1989). Software architectures for group decision support systems. In A. Sage (Ed.) *Concise Encyclopedia of Information Processing in Systems and Organizations* (pp. 202-207). Oxford, England, Pergamon Press. {Technology Design]

DeSanctis, G. (1989). Small group research in information systems: Theory and method. In I. Benbasat (Ed.) *The information systems research challenge: Experimental research methods* (pp. 53-82). Boston: Harvard Business School. [Review]

Poole, M. S., & DeSanctis, G. (1990). Understanding the use of group decision support systems. In J. Fulk & C. Steinfield (Eds.), *Organizations and communication technology* (pp. 175-195). Newbury Park, CA: Sage. [Theory]

Poole, M.S. (1991). Procedures for managing meetings: Social and technological innovation. In R.A Swanson & B.O. Knapp (Eds.) *Innovative meeting management* (pp. 53-110). Austin, TX: 3M Meeting Management Institute. [Theory]

Dickson, G., Poole, M. S., & DeSanctis, G. (1992). An overview of the Minnesota GDSS research project and the SAMM system. In R. P. Bostrom, R. T. Watson, & S. T. Kinney (Eds.). (pp. 163-179), *Computer augmented teamwork: A guided tour*. New York: Van Nostrand Reinhold. [Technology Design; Review]

Poole, M. S., Shannon, D. L., & DeSanctis, G. (1992). Electronic modes of negotiation. In L. Putnam and M. Roloff (Eds.), *Communication and negotiation*. Newbury Park, CA: Sage. pp. 46-66. [Review]

Vician, C., DeSanctis, G., Poole, M. S., & Jackson, B. M. (1992). Using group technologies to support the design of "lights out" computing systems: A case study. In K. E. Kendall, K. Lyytinen, & J. I DeGross (Eds.), *The impact of computer-supported technologies on information systems development*. Amsterdam, The Netherlands: North-Holland, pp. 151-178. [Field Study]

DeSanctis, G. (1992). Shifting foundations in group decision support research. In L. M. Jessup & J. Valacich (Eds.), *Group support systems: New perspectives*. New York: Macmillan. [Theory]

Poole, M. S., & Jackson, M. H. (1992). Communication theory and group support systems. In L. M. Jessup & J. S. Valacich (Eds.), *Group support systems: New perspectives* (pp. 281-293). New York: Macmillan. [Theory]

Benbasat, I., DeSanctis, G., & Nault, B. (1993). Empirical research in managerial support systems: A review and assessment. In C. W. Holsapple & A. Whinston (Eds.), *Recent developments in decision support systems*. Springer-Verlag. [Review]

Poole, M. S., DeSanctis, G., Kirsch, L., & Jackson, M. (1994). Group decision support systems as facilitators of quality team efforts. In L. R. Frey (Ed.), *Innovations in group facilitation techniques: Case studies of applications in naturalistic settings* (pp. 299-322). Creskill, NJ: Hampton Press [Lab Study: Process]

DeSanctis, G., & Poole, M. S. (1997). Transitions in teamwork in new organizational forms. In B. Markovsky (Ed.), *Advances in Group Processes*, Volume 14, 157-176. Greenwich, CT: JAI Press. [Field Study]

DeSanctis, G., Poole, M. S., & Dickson, G. W. (2000). Teams and technology: Interactions over time. In Neale, M.A., Mannix, E.A., & Griffith, T.L. (Eds.) *Research on managing groups and teams: Technology* (Vol. 3, pp. 1-27). JAI Press: Stamford, CT. [Field Study]

Poole, M. S. (2002). Group support systems. In H. Bigdoli (Ed.) *Encyclopedia of information systems* (pp. 501-509). Amsterdam: Academic Press. [Review]

Poole, M. S., & DeSanctis, G. (2004). Structuration theory in information systems research: Methods and controversies. In M. E. Whitman & A. B. Woszczyński (Eds.) *The handbook of information systems research* (pp. 206-249). Hershey, PA: Idea Group.

DeSanctis, G. (2005) Computer supported cooperative work (CSCW). In G. Davis (Ed.) *The Blackwell encyclopedia of management*. Oxford, UK: Blackwell. [Review]

DeSanctis, G. & Dickson, G. W. (2005) Group decision support systems (GDSS). In G. Davis (Ed.) *The Blackwell encyclopedia of management*. Oxford, UK: Blackwell. [Review].

Conference Papers (9; Proceedings Publications were also presented at respective conference)

Billingsley, J. (1989, May). *An analysis of small group appropriation of decision structures in a computer-assisted group decision support environment*. Paper presented at the annual meeting of the International Communication Association, San Francisco, CA. [Lab Study: Process]

Sambamurthy, V. (1989, May). *Task-technology fit as a basis for investigation of GDSS effects: Theory and empirical evidence*. Paper presented at the annual meeting of the International Communication Association, San Francisco, CA. [Lab Study: Outcomes]

Billingsley, J. (1990, June). *Studying the use of technological resources: Development and test of an interaction coding instrument*. Paper presented at the annual meeting of the International Communication Association, Dublin, IR. [Lab Study: Process]

Jackson, M.H. & Poole, M.S. (1990, November). *Does computer support change argumentation and reasoning in groups?* Paper presented at the annual meeting of the Speech Communication Association, Chicago. [Lab Study: Process]

Poole, M. S., Zappa, J., DeSanctis, G., Shannon, D., & Dickson, G. W. (1990, August). *A theory and design for negotiation support systems*. Paper presented at the annual meeting of the Academy of Management, San Francisco. [Theory; Technology Design]

DeSanctis, G., Desharnais, G., Lewis, H., & Poole, M. S. (1990, October). *Using computing to improve the quality team process*. Paper presented at the Association of Quality Professionals, Denver, CO. [Field Study]

Poole, M. S., & Lind, R. (1991, May). *The process of using group decision support systems as a key influence on communication processes and outcomes*. Paper presented at the International Communication Association, Atlanta.

Sambamurthy, V. & Poole, M.S. (1991, August). *The effects of level of sophistication of computerized support on the conflict process and outcomes in groups*. Paper presented at the annual meeting of the Academy of Management, San Francisco. [Lab Study: Process]

DeSanctis, G., Dickson, G. W., Jackson, B., & Poole, M. S. (1991, August). *Using computing in the face-to-face meeting: Some initial observations from the Texaco-Minnesota project*. Paper presented at the annual meeting of the Academy of Management, Miami, FL. [Field Study]

Working Papers/Unpublished Reports (8)

Poole, M. S., & DeSanctis, G. (1987). *Group decision making and group decision support systems* (MISRC-WP-88-02). Minneapolis: University of Minnesota, Carlson School of Management, Management Information Systems Research Center.

Zigurs, I., & Watson, R. T. (1988). *Experiments in computer-aided group decision making: Recommendations based on experience*. Unpublished working paper, Information and Decision Sciences Department, University of Minnesota, Minneapolis.

DeSanctis, G., Poole, M. S., Limayem, M., & Johnson, W. (1990). *The GDSS research project: Experimental materials summary and general questionnaires* (MISRC Working Paper 90-09). Minneapolis: University of Minnesota, Management Information Systems Research Center.

Billingsley, J. (1990). *Global style level of GDSS: Resource codebook*. Unpublished manuscript, Department of Communication, Rutgers University, New Brunswick, NJ.

Poole, M. S., & Lind, R. Watson, R., & DeSanctis, G. (1992). *The process of using group decision support systems as a key influence on communication processes and outcomes*. Unpublished manuscript, Department of Speech-Communication, University of Minnesota, Minneapolis.

Niederman, F.I. & Bryson, J. (1992). *Computer-based meeting support for a divisional coordinating group*. Unpublished manuscript, Department of Management, University of Baltimore, Baltimore, MD.

Armstrong, C., Perez, J. & Sambamurthy, V. (1993). *Micro-level structuration behaviors in decision-making groups: The effects of alternative GDSS structures*. Unpublished manuscript, Department of Information and Management Sciences, Florida State University, Tallahassee, FL.

Sambamurthy, V., DeSanctis, G., & Poole, M. S. (1995). *The effects of GSS structures on group decision-making on cognitive-conflict tasks*. Unpublished manuscript, Information and Management Sciences Department, Florida State University.