

# Scott Paul Robertson

## Curriculum Vitae (March 2018)

### Contact

University of Hawai'i at Mānoa  
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### Education

- Ph.D. 1983, Yale University. Psychology with specialization in Cognitive Science
- M.A. 1979, California State University, Fullerton. Psychology
- B.A. 1976, University of California, Irvine. Social Science

### Employment

- University of Hawai'i at Mānoa, Honolulu, HI  
Information and Computer Sciences Department
  - Chair of Department, 2017-present
  - Associate Chair of Department, 2016-2017
  - Professor, 2015-present
  - Associate Professor, 2009-present, tenured in 2012
  - Assistant Professor, 2007-2009
  - Founder: Hawaii Computer-Human Interaction Lab (HICHI), 2008-present  
Lab website: <http://manoa.hawaii.edu/hichi>
- Drexel University, Philadelphia, PA  
College of Information Science and Technology
  - Associate Professor, 2000-2007
- MediaOne, Englewood, CO (acquired by ATT, 2000)
  - Member Technical Staff, MediaOne Labs, Broadband Innovation Group, 1999-2000
  - Knowledge Management Project Lead, MediaOne Group, Shared Corporate Resources, 1998-1999
- U S WEST, Boulder/Denver, CO (acquired by Qwest, 1998)
  - Director, Global Village (corporate intranet portal), 1998
  - Information Technologist, Corporate Library (Denver), 1996-1998
  - Member Technical Staff, Advanced Technologies (Boulder), 1994-1996
- IBM Thomas J. Watson Research Center, Yorktown Heights, NY  
Computer Science Department
  - Research Staff Member, 1992-1994
- Rutgers University, New Brunswick, NJ  
Psychology Department
  - Assistant Professor, 1986-1992
- The Catholic University of America, Washington, DC  
Psychology Department
  - Assistant Professor, 1983-1986

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## Research & Professional Interests

Sociotechnical systems; Social media and civic engagement; New media and learning; Digital government (e-Participation); Human-computer interaction and interaction design

## Grants/Contracts

- **National Science Foundation**, Information and Intelligent Systems Division: *Human-Centered Computing: Social search and deliberation in digital political information and collaboration domains*, \$948,537, 2011-2017.
- **National Science Foundation**, Information and Intelligent Systems Division: *Cyber-Human Systems: Workshop: Doctoral Consortium at the 2014 ACM International Conference on Collaboration Across Boundaries (CABS 21014)*, \$23,408, 2014.
- **National Science Foundation**, Information and Intelligent Systems Division: *Digital deliberation: Searching and deciding about how to vote*, \$400,000, 2005-2009.
- **Office of Naval Research**, Perceptual Sciences Program: *Goal and plan knowledge in software comprehension*, 1986-1990.
- **National Science Foundation**, Information Science Division, New Investigator Award: *Errors, explanation, and plan modification in cognitive skill learning*, \$47,917, 1985-1987.

## Professional Affiliations

- Association for Computing Machinery (elected Senior Member, 2009)
- ACM/SIGCHI
- American Psychological Society (elected Fellow, 1990)
- Digital Government Society

## Professional Experience

- **Editorial and Boards:**
  - *ACM Transactions on Computer-Human Interaction*, Associate Editor (2005-present)
  - *Information Polity*, Editorial Board (2016-present)
  - *Interacting with Computers*, Member of the Special Editorial Board for Human Sciences (2000-2009)
  - Digital Government Society: Board member (2012-2017)
  - Hawaii Council for the Humanities: Board member (2013-2015)

## Conference/Workshop Committees:

- **Association for Computing Machinery (ACM)**
  - Computer-Human Interaction (SIGCHI)
    - CHI 2017: CHI Stories Chair, Early Career Workshop Mentor
    - CHI 2016: Program Committee, Associate Chair, Social Computing and CSCW
    - CHI 2010: Program Committee, Associate Chair, Interaction Beyond the Individual
    - CHI 1995: Conference Co-chair
    - CHI 1991: Proceedings Chair
    - CHI 1990: Panels Committee
    - CHI 1988: Panels Committee Chair
    - CHI 1992-1993: Conference Planning Committee
  - CSCW 2016: Program Committee
  - CSCW 2004: Publications Chair
  - GROUP 2016: Program Committee
  - SIGCHI Information Director, 1995-1996

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- User Interface Science and Technology, UIST 2014: Local Arrangements Chair
- Collaboration Across Boundaries, CABS 2014: Doctoral Consortium Co-Chair
- ACM/IEEE Joint Conference on Digital Libraries, July 2002: Program Committee for the "Visual Interfaces to Digital Libraries" workshop
- **ACM Conference on Collaboration Across Boundaries (CABS):** 2014 Doctoral Consortium Chair
- **Consortium for the Science of Sociotechnical Systems (CSST):** 2015 Summer Research Institute Mentor
- **Communities & Technologies (C&T):** Program Committee, 2009, 2011, 2013
- **Digital Government Society (DGS):**
  - 2012-present: Board member
  - 2014: Conference co-chair
  - 2010-present: Conference Program Committee Member
- **Hawaii International Conference on Systems Science (HICSS)**
  - 2008-present: Open and Participatory Government minitrack co-chair
  - 2011-2012: E-Government Symposium lead team member
- **ICEGOV:** Program Committee, 2010-present
- **National Academy of Sciences:** Computer Science and Telecommunications Board: Electronic Voting Project participant (2004)
- **American Association for the Advancement of Science**
  - 2006: Invited participant, Workshop on "Research on the U.S. Voting System: Matching Needs with Knowledge," Scientific Freedom, Responsibility and Law Program, (Washington, DC)
  - 2004: Invited participant, Workshop on "Developing a Research Agenda for Electronic Voting Technologies," Scientific Freedom, Responsibility and Law Program, (Washington, DC)
  - 1984: Symposium organizer, "Cognition, computing, and interaction: Human-computer systems," (New York)
- **Human-Computer Interaction Consortium:**
  - Drexel University Representative to the Governing Board, 2001-2007
  - U S WEST Representative to the Governing Board, 1994-1998
- **IBM:** Workshop co-organizer, "Object-oriented design education," 6th IBM Conference on Object-Oriented Software Development, 1993 (Toronto)
- **Empirical Studies of Programmers:** Conference Co-chair, Fourth Workshop on Empirical Studies of Programmers, 1991 (New Brunswick, NJ)
- **Human Factors Society:** Symposium organizer, "Information processing approaches to the study of human-computer interaction," 1985 (Baltimore, MD)

### Teaching Experience

- **Graduate:** Human-Computer Interaction, HCI Design Methods, Statistics, Hypermedia, Digital Government, Computational Models of Cognition, Learning and Memory, Natural Language Processing, Skill and Knowledge Acquisition
- **Undergraduate:** Introduction to Computer Science I and II (Java), Introduction to Information Systems, Human-Computer Interaction, Cognitive Science, Research Methods, Statistics, Introductory Psychology, Applied Psychology, Memory and Attention, Natural Language Processing, Psychology of Language, Principles of Human Cognition

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### Refereed Journal Articles

- J1. Robertson, S.P., Semaan, B.C., Douglas, S., & Maruyama, M. (2016). Social media mixed with news in political candidate judgment: Order effects on knowledge and affect. *Information Polity*, 21 (4), 347-365. DOI=10.3233/IP-160388
- J2. Douglas, S., Raine, R.B., Maruyama, M., Semaan, B., & Robertson, S.P. (2015). Community matters: How young adults use Facebook to evaluate political candidates. *Information Polity* 20 (2,3), 135-150. DOI=10.3233/IP-150362
- J3. Robertson, S.P., Douglas, S., Maruyama, M., & Semaan, B. (2013). Political discourse on social networking sites: Sentiment, in-group/out-group orientation, and rationality. *Information Polity*, 18 (2), 107-126. DOI=10.3233/IP-130303
- J4. Robertson, S., & Vatrappu, R. (2010). Digital government. *Annual Review of Information Science and Technology*, 44 (1), 317-364.
- J5. Robertson, S.P., Vatrappu, R.K. & Medina, R. (2010). Off the wall political discourse: Facebook use in the 2008 U.S. presidential election. *Information Polity*, 15 (1-2), 11-31.
- J6. Robertson, S.P., Vatrappu, R.K. & Medina, R. (2010). Online video "friends" social networking. Overlapping online public spheres in the 2008 U.S. presidential election. *Journal of Information Technology & Politics*, 7 (2-3), 182-201.
- J7. Vatrappu, R., Robertson, S., & Dissanayake, W. (2008). Are political weblogs public spheres or partisan spheres? *International Reports on Socio-Informatics*, 5(1), 7-26.
- J8. Robertson, S.P. (2005). Voter-centered design: Toward a voter decision support system. *ACM Transactions on Computer-Human Interaction*, 12(2), June, 263-292.
- J9. Robertson, S. (2002). A tale of two knowledge-sharing systems. *Journal of Knowledge Management*, 6(3), 295-308. [PDF 484KB]
- J10. Mann, B.D., Eidelson, B.M., Fukuchi, S.G., Nissman, S.A., Robertson, S. and Jardines, L. (2002). The development of an interactive game-based tool for learning surgical management algorithms via computer. *The American Journal of Surgery*, 183, 305-308.
- J11. Robertson, S., & Reese, K. (1999). A virtual library for building community and sharing knowledge. *International Journal of Human-Computer Studies*, 51, 663-685.
- J12. Carroll, J., Mack, R., Robertson, S.P., & Rosson, M.B. (1994). Binding objects to scenarios of use. *International Journal of Human-Computer Studies*, 41, 243-276.
- J13. Robertson, S.P. (1994). TSUNAMI: Simultaneous understanding, answering, and memory interaction for questions. *Cognitive Science*, 18, 51-85.
- J14. Robertson, S.P., Weber, K., Ullman, J., & Mehta, A. (1993). Parallel question parsing and memory retrieval. *Journal of Memory and Language*, 32, 155-168.
- J15. Robertson, S.P. (1990). Knowledge representations used by computer programmers. *Journal of the Washington Academy of Sciences*, 80, 116-137.
- J16. Robertson, S.P., & Yu, C.C. (1990). Common cognitive representations of program code across tasks and languages. *International Journal of Man-Machine Studies*, 33, 343-360.
- J17. Robertson, S.P., & Swartz, M. (1986). Why do we ask ourselves questions? *Questioning Exchange*, 2, 47-51.
- J18. Robertson, S.P., & Black, J.B. (1986). Structure and development of plans in computer text editing. *Human-Computer Interaction*, 2, 201-226.
- J19. Carroll, J.M., Mack, R.L., Lewis, C.H., Grischkowsky, N.L., & Robertson, S.P. (1985). Exploring exploring a word processor. *Human-Computer Interaction*, 1, 283-307.
- J20. Seifert, C.M., Robertson, S.P., & Black, J.B. (1985). Types of inferences generated during reading. *Journal of Memory and Language*, 24, 405-422.
- J21. Robertson, S.P. (1983). Probing the mind: The interface of computers with psychology. *Yale Scientific*, 55, Spring, 24-27.
- J22. Graesser, A.C., Robertson, S.P., & Anderson, P.A. (1981). Incorporating inferences into narrative representations: A study of how and why. *Cognitive Psychology*, 13, 1-26.

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- J23. Robertson, S.P., Black, J.B., & Johnson, P.N. (1981). Intention and topic in conversation. *Cognition and Brain Theory*, 4, 303-326.
- J24. Graesser, A.C., Robertson, S.P., Lovelace, E.R., & Swinehart, D.M. (1980). Answers to why-questions expose the organization of story plot and predict recall of actions. *Journal of Verbal Learning and Verbal Behavior*, 19, 110-119.
- J25. Graesser, A.C., Higgenbotham, M.W., Robertson, S.P., & Smith, W.R. (1978). A natural inquiry into the National Inquirer: Self-induced versus task-induced reading comprehension. *Discourse Processes*, 1, 355-372.
- J26. Beck, H., Matson, D., Baker, E., & Robertson, S. (1979). Biobehavioral analysis of tension headaches: An interactional hypothesis. *Journal of Social and Biological Structures*, 2(3), 177-196. doi:10.1016/0140-1750(79)90026-5
- J27. Robertson, S.P. (1978). Variations in personal space as a function of sex and the indicated status of a standardized stimulus. *UCI Journal of Undergraduate Research*, 1, 63-77.

### Refereed Conference Proceedings

- P1. Maruyama, M., Robertson, S.P., Douglas, S., Raine, R., Semaan, B. (2017). "Social watching" a civic broadcast: Understanding the effects of positive feedback and other users' opinions. *Proceedings of the 20<sup>th</sup> ACM Conference on Computer Supported Cooperative Work (CSCW'17)*, ACM, New York, NY, USA, 794-807. DOI=10.1145/2998181.2998340
- P2. Kirshenbaum, N. & Robertson, S. (2016). Set&Motion: Tool for Authoring Interactive Stories with Sensors and Actuators. In *Proceedings of the the 15<sup>th</sup> International Conference on Interaction Design and Children (IDC '16)*. ACM, New York, NY, USA, 554-559. DOI=10.1145/2930674.2935988
- P3. Semaan, B., Faucett, H., Robertson, S.P., Maruyama, M., & Douglas, S. (2015). Designing political deliberation environments to support interactions in the public sphere. *Proceedings of the 33<sup>rd</sup> Annual ACM Conference on Human Factors in Computing Systems (CHI'15)*. New York: ACM, 3167-3176. DOI=10.1145/2702123.2702403
- Best paper award.**
- P4. Semaan, B., Faucett, H., Robertson, S.P., Maruyama, M., & Douglas, S. (2015). Navigating imagined audiences: Motivations for participating in the online public sphere. *Proceedings of the 18<sup>th</sup> ACM Conference on Computer Supported Cooperative Work (CSCW'14)*, New York: ACM, 1158-1169. DOI=10.1145/2675133.2675187
- P5. Douglas, S., Maruyama, M., Semaan, B., & Robertson, S.P. (2014). Politics and young adults: The effects of Facebook on candidate evaluation. *Proceedings of the 15<sup>th</sup> Annual International Conference on Digital Government Research*, New York: ACM, 10pp.
- P6. Semaan, B., Robertson, S., Douglas, S., & Maruyama, M. (2014). Social media supporting political deliberation across multiple public spheres: Towards depolarization. *Proceedings of the 17<sup>th</sup> ACM Conference on Computer Supported Cooperative Work (CSCW'14)*, New York: ACM, 1409-1421. DOI=10.1145/2531602.2531605
- P7. Maruyama, M., Robertson, S., Douglas, S., Semaan, B., & Faucett, H. (2014). Hybrid media consumption: How tweeting during a televised political debate influences the vote decision. *Proceedings of the 17<sup>th</sup> ACM Conference on Computer Supported Cooperative Work & Social Computing (CSCW'14)*, New York: ACM, 1422-1432. DOI=10.1145/2531602.2531719
- P8. Maruyama, M., Suthers, D.D., & Robertson, S.P. (2014). Characterizing communication networks associated with political hashtags. In *Proceedings of HICSS-47: Hawaii International Conference on System Sciences*. Washington, DC: IEEE Computer Society, 1546-1555. DOI=10.1109/HICSS.2014.199

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- P9. Maruyama, M., Douglas, S., & Robertson, S. (2013). Rebooting local government: Design teams as change agents in the open data movement. *Proceedings of HICSS-46: Hawaii International Conference on System Sciences*, Washington, DC: IEEE Computer Society, 1860-1869. DOI=10.1109/HICSS.2013.170
- P10. Robertson, S.P., Semaan, B., Maruyama, M., & Douglas, S. (2013). Mixed media: Interactions of social and traditional media in political decision making. *Proceedings of HICSS-46: Hawaii International Conference on System Sciences*, Washington, DC: IEEE Computer Society, 2013-2022. DOI=10.1109/HICSS.2013.408
- P11. Robertson, S.P., Douglas, S., Maruyama, M., & Chen, L. (2012). Political dialog evolution in a social network. *Proceedings of the 13<sup>th</sup> Annual International Conference on Digital Government Research*: New York: ACM, 40-48. **Best research paper award.**
- P12. Robertson, S.P. (2011). Changes in referents and emotions over time in election-related social networking dialog. *Proceedings of HICSS-44: Hawaii International Conference on System Sciences*, IEEE Computer Society, (9pp).
- P13. Vatrapu, R., & Robertson, S.P. (2010). An information foraging analysis of note taking and note sharing while browsing campaign information. *Proceedings of HICSS-43: Hawaii International Conference on System Sciences*. IEEE Computer Society, (10pp).
- P14. Robertson, S.P., Vatrapu, R., & Abraham, G. (2009). Note taking and note sharing while browsing campaign information: Design tradeoffs between e-democracy and e-participation. *Proceedings of HICSS-42: Hawaii International Conference on System Sciences*, IEEE Computer Society, (10pp).
- P15. Robertson, S.P., Vatrapu, R., & Medina, R. (2009). The social life of social networks: Facebook linkage patterns in the 2008 U.S. presidential election. *Proceedings of the 10th Annual International Conference on Digital Government Research. Social Networks: Making Connections between Citizens, Data and Government*, Digital Government Society of North America, 6-15.
- P16. Robertson, S.P., Vatrapu, R., & Medina, R. (2009). YouTube and Facebook: Online video "friends" social networking. *Proceedings of the Conference on YouTube and the 2008 Election Cycle in the United States*, Amherst, MA.
- P17. Vatrapu, R., & Robertson, S.P. (2009). Information foraging in e-Voting. *Extended Abstracts of CHI '09: Human Factors in Computing Systems*. New York: ACM Press.
- P18. Robertson, S.P. (2008). Design research in digital government: A query prosthesis for voters. *Proceedings of the 2008 International Conference on Digital Government Research*, Digital Government Society of North America, 73-88.
- P19. Robertson, S.P., Wania, C., & Abraham, G., & Park, S.J. (2008). Drop-down democracy: Internet portal design influences voters' search strategies. *Proceedings of HICSS-41: Hawaii International Conference on System Sciences*, IEEE Computer Society. (10pp).
- P20. Robertson, S.P., Wania, C., & Park, S.J. (2007). An observational study of voters on the internet. *Proceedings of HICSS-40: Hawaii International Conference on System Sciences*, IEEE Computer Society. (10pp).
- P21. Robertson, S.P. (2006). Digital deliberation: Searching and deciding about how to vote. *Proceedings of the 2006 International Conference on Digital Government Research*, Digital Government Society of North America, 95-96.
- P22. Robertson, S.P., Achananuparp, P., Goldman, J., Park, S.J., Zhou, N., & Clare, M. (2005). Voting and political information gathering on paper and online. *Extended Abstracts of CHI '05: Human Factors in Computing Systems*. New York: ACM Press, 1753-1756.
- P23. Carpenter, K., Nardi, B., Moore, J., Robertson, S., Drezner, D., Benson, I., Foot, K., & Jett, Q. (2004). Online political organizing: Lessons from the field. *Proceedings of CSCW 2004: ACM Conference on Computer Supported Cooperative Work*, New York: ACM Press, 59-62.

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- P24. Robertson, S., Jitan, S., & Reese, K. (1997). Web-based collaborative library research. *Proceedings of the Second ACM International Conference on Digital Libraries*. New York: ACM Press, 152-160.
- P25. Robertson, S.P., Wharton, C., Ashworth, C., & Franzke, M. (1996). Dual device user interface design: PDAs and interactive television. *Proceedings of CHI 96: Human Factors in Computing Systems*, Reading, MA: Addison-Wesley, 79-86.
- P26. Robertson, S.P., Carroll, J.M., Mack, R.L., Rosson, M.B., Alpert, S.R., Koenemann-Belliveau, J. (1994). ODE: A self-guided, scenario-based learning environment for object-oriented design principles. *Proceedings of OOPSLA '94: Object-Oriented Programming Systems, Languages, and Applications*. Reading, MA: Addison-Wesley, 51-64.
- P27. Robertson, S.P., Ullman, J., & Mehta, A. (1992). Simultaneous question comprehension and answer retrieval. *Proceedings of the 14th Annual Meeting of the Cognitive Science Society*. Hillsdale, NJ: Erlbaum, 474-479.
- P28. Koenemann, J. & Robertson, S.P. (1991). Expert problem solving strategies for program comprehension. *Proceedings of CHI '91: Human Factors in Computing Systems*. Reading, MA: Addison-Wesley, 125-130.
- P29. Robertson, S.P., Davis, E.F., Okabe, K., & Fitz-Randolf, D. (1990). Program comprehension beyond the line. *Proceedings of INTERACT-90: Third IFIP Conference on Human-Computer Interaction*. Amsterdam: Elsevier Science Publishers, 959-963.
- P30. Robertson, S.P., & Weber, K. (1990). Parallel processes during question answering? *Proceedings of the 12th Annual Meeting of the Cognitive Science Society*. Hillsdale, NJ: Erlbaum, 542-549.
- P31. Robertson, S.P., Koizumi, D., & Marsella, S.C. (1988). Constraints on training: Informativeness and breadth in procedural skill learning. *Proceedings of the Human Factors Society 32nd Annual Meeting*. 1, 377-380.
- P32. Yu, C.C., & Robertson, S.P. (1988). Plan-based representations of Pascal and FORTRAN code. *Proceedings of CHI '88: Human Factors in Computing Systems*. New York: ACM Press, 251-256.
- P33. Robertson, S.P., & Swartz, M. (1987). Question asking during procedural learning: Strategies for acquiring knowledge in several domains. *Proceedings of the 9th Annual Meeting of the Cognitive Science Society*. Hillsdale, NJ: Erlbaum, 325-335.
- P34. Howard, J.H., Shaw, R.J., Robertson, S.P., & Raver, J.A. (1985). User strategies in interactive image processing. Abstract in *Proceedings of the Human Factors Society 29th Annual Meeting*, 31-32.
- P35. Robertson, S.P. (1985). Conceptual representation of error patterns as a model of procedural learning in text editing. *Proceedings of IEEE International Conference on Cybernetics and Society*. IEEE Computer Society, 357-361.
- P36. Robertson, S.P. (1985). Learning from errors in computer text editing. Abstract in *Proceedings of the Human Factors Society 29th Annual Meeting*, 28-29.
- P37. Robertson, S.P., & Black, J.B. (1983). Planning units in text-editing behavior. *Proceedings of CHI '83: Human Factors in Computing Systems*, New York: ACM Press, 217-221.
- P38. Seifert, C.M., Robertson, S.P., & Black, J.B. (1982). On-line processing of pragmatic inferences. *Proceedings of the 4th Annual Meeting of the Cognitive Science Society*. Hillsdale, NJ: Erlbaum, 74-76.

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### Book Chapters

- C1. Robertson, S. (2000). The digital city's public library: Support for community building and knowledge sharing. In T. Ishida & K. Isbister (Eds.), *Digital cities: Technologies, experiences, and future perspectives. Lecture Notes in Computer Science (vol 1765)*, Berlin: Springer-Verlag, 246-260.
- C2. Robertson, S.P. (1995). Generating object-oriented design representations via scenario queries. In J. Carroll (Ed.), *Scenario-based design for human-computer interaction*. New York: John Wiley & Sons, 279-308.
- C3. Riecken, D., Koenemann-Belliveau, J., & Robertson, S.P. (1991). What do expert programmers communicate by means of descriptive commenting? In J. Koenemann-Belliveau, T. Moher, & S. Robertson (Eds.). *Empirical studies of programmers: Fourth Workshop*. Norwood, NJ: Ablex, 177-193.
- C4. Robertson, S.P., & Zachary, W. (1990). Outlines of a field of cooperative systems. In S. Robertson, W. Zachary, & J. Black (Eds.). *Cognition, computing, and cooperation*. Norwood, NJ: Ablex, 399-414.
- C5. Zachary, W., & Robertson, S.P. (1990). Introduction to cognition, computation, and cooperation. In S. Robertson et al. (Eds), *ibid*, 1-21.
- C6. Robertson, S.P. (1986). Conceptual structure, question answering processes, and the effects of misleading questions. In J. Galambos, R. Abelson, & J. Black (Eds). *Knowledge structures*. Hillsdale, NJ: Erlbaum, 145-183.
- C7. Robertson, S.P., & Black, J.B. (1984). Planning units in text-editing behavior. In A Janda (Ed). *Human factors in computing systems*. Amsterdam: North Holland (reprint of Robertson & Black, 1983, *ibid*).
- C8. Robertson, S.P., Black, J.B., & Lehnert, W.G. (1984). Misleading question effects as evidence for integrated question understanding and memory search. In A. Graesser & J. Black (Eds). *The psychology of questions*. Hillsdale, NJ: Erlbaum, 191-218.
- C9. Graesser, A.C., Robertson, S.P., & Clark, L.F. (1983). Question answering: A method for exploring the on-line construction of prose representations. In J. Fine & R. Freedle (Eds). *Developmental issues in discourse*. Norwood, NJ: Ablex, 41-68.
- C10. Lehnert, W.C., Robertson, S.P., & Black, J.B. (1983). Memory interactions during question answering. In H. Mandl, N. Stein, & T. Trabasso (Eds). *Comprehension and learning from text*. Hillsdale, NJ: Erlbaum, 355-377.

### Books Edited

- E1. Koenemann-Belliveau, J., Moher, T., & Robertson, S. (Eds.), (1991). *Empirical studies of programmers: Fourth Workshop*. Norwood, NJ: Ablex, 238pp.
- E2. Robertson, S.P., Olson, G., & Olson, J. (Eds.), (1991). *Reaching through technology: CHI'91 Proceedings of the SIGCHI Conference on Human Factors in Computing Systems*. Reading, MA: Addison-Wesley, 513pp.
- E3. Robertson, S.P., Zachary, W., & Black, J.B. (Eds.), (1990). *Cognition, computing, and cooperation*. Norwood, NJ: Ablex, 424pp.

### Unpublished Conference/Workshop Presentations

- U1. Robertson, S. (2011). Comparative analysis of web-based political dialog. Second International Workshop on Comparative Informatics (IWCI-2011), Copenhagen, Denmark, December.
- U2. Robertson, S. (2010). A proposed culture by ICT-development matrix for digital government. First International Workshop on Comparative Informatics (IWCI-2010), Copenhagen, Denmark, August.



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- U3. Robertson, S., Vatrapu, R., & Medina, R. (2009). YouTube and Facebook: Online video "friends" social networking. University of Massachusetts Conference on YouTube and the 2008 Election Cycle in the United States, Amherst, MA, April.
- U4. Faust, L., Jaeger, P. T., Jayanandhan, S. R. and Robertson, S. (2008). Civic engagement, youth, and community: The role of place, education, information, and technology in shaping civic and political discourse (SIG-KM). *Proc. Am. Soc. Info. Sci. Tech.*, 45: 1–3. doi: 10.1002/meet.2008.1450450140
- U5. Robertson, S., & Vatrapu, R. (2008). Towards voter-centered design: A demonstration of VotesBy.US. Interactive demonstration at NordiCHI 2008, Lund, Sweden, October.
- U6. Vatrapu, R., Robertson, S., Dissanayake, W., & Jeedigunta, A. (2008). Political blogs as public spheres. DEMO-net Research Workshop: Empowerment and e-Participation in Civil Society: Local, National and International Implications. Örebro University, Sweden, May.
- U7. Zhang, Q., Swain, D. E., Hawamdeh, S. and Robertson, S. (2006), Virtual communities and social networks: The impact of blogs and online community on social engagement. *Proc. Am. Soc. Info. Sci. Tech.*, 43: 1–5. doi: 10.1002/meet.14504301139
- U8. Robertson, S. (2005). I-schools and 21st century citizenship. The First i-Conference of the i-School Deans' Community. State College, PA, September.
- U9. Robertson, S., Zhou, N., Park, S.J., Goldman, J., Achananuparp, P. (2005). Deciding on digital democracy: The psychology of electronic voting. American Psychological Society, Los Angeles, CA, April.
- U10. Robertson, S. (2003). A user-centered approach to the design of electronic voting systems. Human Computer Interaction Consortium (HCIC), Fraser, CO, Feb.
- U11. Robertson, S. (2002). Electronic voting in context: A collaborative ballot for digital government. Poster for CSCW-2002: ACM Conference on Computer Supported Collaborative Work. New Orleans, LA, November.
- U12. Robertson, S. (2002). Electronic voting in context: Community and collaboration tools for democratic participation in digital government. "Boaster" at Human-Computer Interaction Consortium (HCIC), Fraser, CO, Feb.
- U13. Robertson, S. (1999). The digital city's public library: Support for community building and knowledge sharing. 1999 Kyoto Meeting on Digital Cities. Kyoto, Japan, September.
- U14. Robertson, S.P., Wharton, C., Ashworth, C., Franzke, M., Marics, M., & King, M. (1996). Designing multiple-device systems. Human-Computer Interaction Consortium (HCIC), Frasier, CO, Feb.
- U15. Robertson, S.P. (1993). ODE: Object design environment for learning object-oriented design techniques. 6th IBM Conference on Object-Oriented Software Development. Toronto, July.
- U16. Robertson, S.P. (1993). Generating object-oriented design representations via scenario queries. IBM workshop on use-oriented design representations. Chappaqua, NY, June.
- U17. Robertson, S.P. (1993). A question of design. IFIP workshop on design rationale, held prior to InterCHI '93, Amsterdam, April.
- U18. Robertson, S.P., & Davis, E.F. (1990). A problem-solving analysis of code comprehension. Poster for CHI'90: Conference on Human Factors in Computing Systems, Seattle, WA, August.
- U19. Robertson, S.P., Davis, E., Okabe, K., & Fitz-Randolf, D. (1990). Program comprehension beyond the line. INTERACT-90: Third IFIP Conference on Human-Computer Interaction. Cambridge, U.K., August.
- U20. Yu, C.C., & Robertson, S.P. (1989). A closer look at analogical problem solving. Eastern Psychological Association. Boston, MA, March.

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- U21. Robertson, S.P. (1988). Planning and task analysis for information systems. American Society for Information Science. Atlanta, GA, October.
- U22. Robertson, S.P., Koizumi, D., & Marsella, S.C. (1988). Constraints on training: Informativeness and breadth in procedural skill learning. Human Factors Society. Anaheim, CA, October.
- U23. Robertson, S.P., & Swartz, M. (1987). Question asking during procedural learning: Strategies for acquiring knowledge in several domains. Cognitive Science Society. Seattle, WA, July.
- U24. Robertson, S.P., & Swartz, M. (1987). Questions reflect knowledge utilized during procedural learning. Second International Conference on Human-Computer Interaction. Honolulu, HI, August.
- U25. Mauch, M., & Robertson, S.P. (1986). Belief schemata and the use of discrepant evidence in base rate estimation. American Psychological Association. Washington, DC, August.
- U26. Robertson, S.P., & Bahri, T. (1986). The effect of questions on inferences during reading. Third Mid-Central Human Factors/Ergonomics Conference. Miami University, Oxford, Ohio, June.
- U27. Robertson, S.P., & Swartz, M. (1986). Why do we ask ourselves questions? Third Annual Workshop on Theoretical Issues in Conceptual Information Processing. Philadelphia, PA, August.
- U28. Howard, J.H., Shaw, R.J., Raver, J.A., & Robertson, S.P. (1985). User strategies in interactive image processing. Human Factors Society. Baltimore, MD, August.
- U29. Robertson, S.P. (1985). Conceptual representation of error patterns as a model of procedural learning in text editing. IEEE International Conference on Cybernetics and Society. Tuscon, AZ, November.
- U30. Robertson, S.P. (1985). Learning from errors in computer text editing. Human Factors Society. Baltimore, MD, August.
- U31. Robertson, S.P. (1985). The POE project: A model of procedural learning from conceptual representation of error patterns. Second Annual Workshop on Theoretical Issues in Conceptual Information Processing. Yale University, New Haven, CT, August.
- U32. Robertson, S.P., Black, J.B., Graesser, A.C., & Murray, K. (1984). Mapping schemata of computer environments and examining plan acquisition. American Association for the Advancement of Science. New York, May.
- U33. Robertson, S.P., & Black, J.B. (1984). Planning units in computer text editing. American Educational Research Association. New Orleans, LA, April.
- U34. Robertson, S.P., & Black, J.B. (1983). Planning units in text-editing behavior. CHI '83: ACM/SIGCHI Conference on Human Factors in Computing Systems. Boston, MA, December.
- U35. Robertson, S.P., Black, J.B., & Lehnert, W.G. (1982). Leading questions affect inferences and memory for actions and states. American Psychological Association. Washington, DC, August.
- U36. Robertson, S.P., Lehnert, W.G., & Black, J.B. (1982). Alterations in memory for text by leading questions. American Educational Research Association. New York, April.
- U37. Seifert, C.M., Robertson, S.P., & Black, J.B. (1982). On-line processing of pragmatic inferences. Cognitive Science Society. Ann Arbor, MI, August.
- U38. Black, J.B., Robertson, S.P., & Johnson, P.N. (1981). Understanding conversation. Psychonomic Society. Philadelphia, PA, August.
- U39. Lehnert, W.G., Robertson, S.P., & Black, J.B. (1981). Memory interactions during question answering. German Institute for Continuing Studies. University of Tubingen, West Germany.

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U40. Robertson, S.P., & Graesser, A.C. (1978). Story organization in memory. Western Psychological Association. San Francisco, CA.

### Book Reviews and Interviews

- R1. Robertson, S.P. (2012). Book review of C.S. King, *Government Is Us 2.0*. In *Information Polity*, 17(2), 195-196.
- R2. "How to apply knowledge management to a merger: Two case studies." Interview in *Knowledge Management Review*, Vol. 3(4), 2000, p. 32.
- R3. "Knowledge Finders: Tools help companies locate specific information and employees with expertise." Quotes in article by Brian Riggs in *InformationWeek*, May 24, 1999.
- R4. "U S WEST's web-based research request handling system." Interviewed by Howard McQueen in *Intranet Professional*, May/June 1998.
- R5. "U S WEST's intranet democratizes knowledge." Interviewed in *Knowledge Inc.*, November 1997.
- R6. Robertson, S.P. (1993). How are questions and information systems related? Book review of T. Lauer, E. Peacock, & A. Graesser (Eds.), *Questions and information systems*. In *Contemporary Psychology*, 38, 1094-1095.
- R7. Robertson, S.P. (1990). Applications of cognitive science to human-computer interaction. Book review of J. Carroll (Ed). *Interfacing thought: Cognitive aspects of human-computer interaction*. In *Contemporary Psychology*, 35, 1132-1133.
- R8. Robertson, S.P. (1989). Book review of L. Mark, J. Warm, & R. Huston (Eds). *Ergonomics and human factors: Recent research*. In *The American Journal of Psychology*, 101, 590-598.

### Invited Talks

- T1. Robertson, S. (2014). Keynote Address: "The core of data science is human science." Copenhagen Seminar on Computational Social Science, Copenhagen Business School.
- T2. Robertson, S. (2004). User-centered interaction design for electronic voting systems. Electronic Voting Project workshop. National Academy of Sciences, Computer Science and Telecommunications Board, Washington, DC, July.
- T3. Robertson, S. (2004). Workshop on Developing a Research Agenda for Electronic Voting Technologies. American Association for the Advancement of Science, Scientific Freedom, Responsibility and Law Program, Washington, DC, Sep.
- T4. PhiCHI: Philadelphia Chapter of the ACM Special Interest Group on Computer-Human Interaction. Electronic voting: Beyond the ballot metaphor. Philadelphia, PA, Oct. 2004.
- T5. IBM T.J. Watson Research Center. Placing the ballot in context: A user-centered perspective on electronic voting. Hawthorn, NY, Mar. 2003.
- T6. Human Factors & Ergonomics Society, South Jersey Chapter. Question answering and the web. FAA Research Development and Human Factors Lab, Atlantic City, NJ. June 2002.
- T7. Institute for International Research, Braintrust 2000: Conference on Advancing Your Organization's Knowledge Management Practice. "Knowledge sharing and the corporate library." Scottsdale, AZ, January 2000.
- T8. American Association of Law Librarians. "Collaboration and information sharing on your library's website." Washington, DC, July 1999.
- T9. Telelearning '98: "Telelearning at work and in society: Virtual learning communities in the workplace" (panel). Vancouver, November 1998.
- T10. International Quality and Productivity Center, Conference on Using Intranets for Effective Knowledge Management. "Knowledge sharing and communities of interest on the U S WEST intranet." San Francisco, November 1998.

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- T11. National Online. "Intranet case study: The U S WEST Library." New York, May 1998.
- T12. Intranets for Knowledge Management conference. "Intranet case study: U S WEST's Global Village and Research Library." San Jose, CA, Sept. 1997.
- T13. Special Libraries Association (SLA), Telecommunications Division. "Intranet case study: U S WEST and value-added information solutions." Seattle, WA, June, 1997.
- T14. SUPERCOMM '97. "Intranet case study: U S WEST and value-added information solutions." New Orleans, LA, June, 1997.
- T15. New York University. Interactions between question parsing and answer retrieval. Cognitive Area Seminar, October 1992.
- T16. Annual Text Conference. Jackson Hole, Wyoming. Parallel processes in question answering? Jan. 1991, 1992.
- T17. Oakland University, Rochester, MI. Self-directed questioning as a comprehension strategy. Workshop on question generation and application to information systems, June 1990.
- T18. Princeton University, Princeton, NJ. Question parsing and memory search in parallel. Princeton-Rutgers-Columbia Cognitive Science talks, March 1990.
- T19. American Psychological Association Division 21 (Applied Experimental and Engineering Psychologists) meeting, Washington, DC. What cognitive psychology has to say about programming interfaces. March 1990.
- T20. Bell Communications Research (Bellcore) NAVESINK, Red Bank, NJ. Question asking and answering. February 1990.
- T21. Bell Communications Research (Bellcore), Morristown, NJ. How guided should exploratory learning be? September 1989.
- T22. New Jersey Department of Higher Education. Computer-based laboratories in human perception and cognition. Psychology Curriculum Enhancement Conference, New Brunswick, NJ, April 1989.
- T23. Human Factors Society, Delaware Valley Chapter. Knowledge utilized during procedural learning. November 1987.
- T24. Columbia University, Teachers College, New York, NY. Question asking during learning of a database system. January 1987.
- T25. Army Research Institute, Washington, DC. Plans and knowledge in skill acquisition. September 1986.
- T26. Princeton University, Princeton, NJ. Why do we ask ourselves questions? Question asking during procedural learning. Cognitive Science Speakers Series, September 1986.
- T27. American Institutes of Research, Washington, DC. Planning units in text-editing behavior. February 1984.
- T28. Software Psychology Society, Washington, DC. Planning units in text-editing behavior. October 1983.

### **Patent Activity**

- U.S. Patent No. 8,620,110: *Method and system for distributing digital images*. Dec. 31, 2013 (for Comcast).
- U.S. Patent No. 5,831,664: *Method and system for synchronizing data between at least one mobile interface device and an interactive terminal*. Nov. 3, 1998 (for MediaOne).

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### Media and Blog Activity

- Medium.com
  - Jan 14, 2018, Human Centered Design and the Missile False Alarm in Hawaii  
<https://medium.com/@scottrob/human-centered-design-and-the-missile-false-alarm-in-hawaii-6b2d76ac2db>
  - Mar 25, 2016, Tay's Bad Day: What can we learn from the first viral attack on a social learning algorithm?  
<https://medium.com/@scottrob/tay-s-bad-day-47e1713f67c4>
  - Jul 9, 2014, Facebook's going to be OK, but science is taking a hit.  
<https://medium.com/@scottrob/facebooks-going-to-be-ok-but-science-is-taking-a-hit-fd512b250f3e>
- Civil Beat
  - Apr 14, 2015, Mauna Kea Is a Special Place in Humanity's Quest for Knowledge,  
<http://www.civilbeat.org/2015/04/mauna-kea-is-a-special-place-in-humanitys-quest-for-knowledge/#.VS4GugkN7oI.twitter>
  - Aug 8, 2011, Hawaii students have trouble seeing the big picture.  
<http://www.civilbeat.org/2011/08/12447-hawaii-students-have-trouble-seeing-the-big-picture/>
- Bytemarks Café, Hawaii Public Radio
  - Feb 28, 2018, AT&T Hackathon,  
<http://www.bytemarkscafe.org/2018/02/28/episode-496-art-world-escape-hvca-gala-awards-att-hackathon-feb-28-2018/>
  - Jan 2, 2013, Hawaii International Conference on Systems Science,  
<http://www.bytemarkscafe.org/2013/01/05/episode-229-hicss-jan-2-2013/>
  - Sep 28, 2011, Social Media Influence,  
<http://www.bytemarkscafe.org/2011/09/30/episode-163-social-media-influence-sept-28-2011/>
- Other
  - July 27, 2017 *Changing Academic Life* podcast  
<http://www.changingacademiclife.com/blog/2017/7/27/scott-robertson>
  - Mar 8, 2017 *ThinkTech Hawaii*, Public affairs live streaming program.
  - Jan 12, 2012 *Insights* with Dan Boylan, PBS Hawaii
  - Aug 9, 2011 Our students' curriculum matters., *Hawaii Independent*,  
<http://hawaiiindependent.net/story/comment-our-students-curriculum-matters>