

Systematic Review of Imposed Search Tasks

*A Collaborative Project Being Conducted at the
University of North Carolina at Chapel Hill,
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<http://ils.unc.edu/searchtasks/>

Empirical Studies To Be Included in the Review, 8/14/2010

- Albertson, D. (2010). Analyzing user interaction with the ViewFinder video retrieval system. *Journal of the American Society for Information Science and Technology*, 61(2), 238-252.
- Allen, B. (1991). Topic knowledge and online catalog search formulation. *Library Quarterly*, 61, 188-213.
- Allen, B. (1993). Logical Reasoning and Retrieval Performance. *Library & Information Science Research*, 15(1), 93-105.
- Allen, B. (1994). Perceptual speed, learning and information retrieval performance. SIGIR '94: The Seventeenth Annual International ACM-SIGIR Conference on Research and Development in Information Retrieval, 71-80.
- Allen, B.L. (1992). Cognitive differences in end-user searching of a CD-ROM index. SIGIR '92: The 15th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, 298-309.
- Allen, B.L., & Kim, K.-S. (2001). Person and context in information seeking: Interactions between cognitive and task variables. *New Review of Information Behaviour Research*, 2, 1-16.
- Aula, A., & Nordhausen, K. (2006). Modeling successful performance in Web searching. *Journal of the American Society for Information Science and Technology*, 57, 1678-1693.
- Bailey, E.W., Kelly, D., & Gyllstrom, K.(2009). Undergraduates' evaluations of assigned search topics. SIGIR '09: 32nd Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, 812-813.
- Belkin, N.J., Cool, C., Kelly, D., Lin, S.J., Park, S.Y., Perez-Carballo, J., & Sikora, C. 2001. Iterative exploration, design and evaluation of support for query reformation in interactive information retrieval. *Information Processing & Management*, I(3): 403-434.
- Bell, D., & Ruthven, I. (2004). Searcher's assessments of task complexity for web searching. ECIR 2004: Advances in Information Retrieval, 26th European Conference on IR Research, 57-71.

- Bellardo, T. (1985). An investigation of online searcher traits and their relationship to search outcome. *Journal of the American Society for Information Science*, 36(4), 241-250.
- Bilal, D. (1998). Children's search processes in using World Wide Web search engines: An exploratory study. *Proceedings of the 61st ASIS Annual Meeting*, 35, 45-53.
- Bilal, D. (2000). Children's use of Yahoooligans! Web search engine: I. Cognitive, physical, and affective behaviors on fact-based search tasks. *Journal of the American Society for Information Science*, 51(7), 646-665.
- Bilal, D. (2001). Children's use of the Yahoooligans! Web search engine: II. Cognitive and physical behaviors on research tasks. *Journal of the American Society for Information Science and Technology*, 52(2), 118-136.
- Bilal, D. (2002). Perspectives on children's navigation of the World Wide Web: Does the type of search task make a difference? *Online Information Review*, 26(2), 108-117.
- Bilal, D., & Bachir, I. (2007). Children's interaction with cross-cultural and multilingual digital libraries: II. Information seeking, success, and affective experience. *Information Processing & Management*, 43, 65-80.
- Bilal, D., & Kirby, J. (2002). Differences and similarities in information seeking: children and adults as Web users. *Information Processing & Management*, 38(5), 649-670.
- Boechler, P.M., & Dawson, M.R.W. (2002). Effects of navigation tool information on hypertext navigation behavior: A configural analysis of page-transition data. *Journal of Educational Multimedia and Hypermedia*, 11(2), 95-115.
- Borgman, C.L. (1986). The user's mental model of an information retrieval system: An experiment on a prototype online catalog. *International Journal of Man-Machine Studies*, 24(1), 47-64.
- Borgman, C.L., Hirsh, S.G., Walter, V.A., & Gallagher, A.L. (1995). Children's search behavior on browsing and keyword online catalogs: The Science Library Catalog Project. *Journal of the American Society for Information Science*, 46(9), 663-684.
- Brand-Gruwel, S., Wopereis, I., & Vermetten, Y. (2005). Information problem solving by experts and novices: Analysis of a complex cognitive skill. *Computers in Human Behavior*, 21, 487-508.
- Browne, G.J., Pitts, M.G., & Wetherbe, J.C. (2007). Cognitive stopping rules for terminating information search in online tasks. *MIS Quarterly*, 31(1), 89-104.
- Campagnoni, F.R., & Ehrlich, K. (1989). Information retrieval using hypertext-based help system. SIGIR '89: 12th Annual International ACM SIGIR Conference, 212-220.

- Capra, R., Marchionini, G., Oh, J.S., Stutzman, F., & Zhang, Y. (2007). Effects of structure and interaction style on distinct search tasks. *JCDL 2007: Proceedings of the 7th ACM/IEEE Joint Conference on Digital Libraries*, 442-451.
- Chen, H., Houston, A.L., Sewell, R.R., & Schatz, B.R. (1998). Internet browsing and searching: Use evaluations of category map and concept space techniques. *Journal of the American Society for Information Science*, 49(7), 582–603.
- Chevalier, A., & Kicka, M. (2006). Web designers and web users: Influence of ergonomic quality of the web site on the information search. *International Journal of Human-Computer Studies*, 64, 1031–1048.
- Christel, M.G. (2007). Examining user interactions with video retrieval systems. *Proceedings of SPIE Volume 6506, Multimedia Content Access: Algorithms and Systems 2007*.
- Christel, M.G., Winkler, D.B., & Taylor, C.R. (1997). Improving access to a digital video library. *INTERACT '97: Proceedings of the IFIP TC13 International Conference on Human-Computer Interaction*, 524-531.
- Cleverdon, C. W. (1977). *A Comparative Evaluation of Searching by Controlled Language and Natural Language in an Experimental NASA Data Base*. European Space Agency, Space Documentation Service. Draft Report.
- Connell, T.H. (1995). Subject searching in online catalogs: Metaknowledge used by experienced searchers. *Journal of the American Society for Information Science*, 46(7), 506-518.
- de Blik, R., Friedman, C.P., Wildemuth, B.M., Martz, J.M., File, D., Twarog, R.G., Reich, G.M., & Hoekstra, L. (1993). Database access and problem solving in the basic sciences. *Proceedings of the Seventeenth Annual Symposium on Computer Applications in Medical Care: A Conference of the American Medical Informatics Association*, 678-682.
- de Blik, R., Martz, J.M., Reich, G.M., Friedman, C P., & Wildemuth, B.M. (1992). Domain knowledge and information retrieval in bacteriology: An information science perspective. *Academic Medicine*, 67(10) (October Suppl.), S54-S56.
- Debowski, S. (2001). Wrong way: Go back! An exploration of novice search behaviours while conducting an information search. *The Electronic Library*, 19, 371–382.
- Dennis, S., Bruza, P., & McArthur, R. (2002). Web searching: A progress-oriented experimental study of three interactive search paradigms. *Journal of the American Society for Information Science and Technology*, 53(2), 120-133.
- Dimitroff, A., & Wolfram, Z. (1995). Searcher response in a hypertext-based bibliographic information retrieval system. *Journal of the American Society for Information Science*, 46, 22–36.

- Downing, R.E., Moore, J.L., & Brown, S.W. (2005). The effects and interaction of spatial visualization and domain expertise on information seeking. *Computers in Human Behavior*, 21, 195–209.
- Dumais, S.T., & Schmitt, D.G. (1991). Iterative searching in an online database. Proceedings of the Human Factors Society 35th Annual Meeting, 398-402.
- Edyburn, D.L. (1988). Examining the successful retrieval of information by students using online databases. *School Library Media Quarterly*, 16, 256–259.
- Egan, D.E., Remde, J.R., Gomez, L.M., Landauer, T.K., Eberhardt, J., & Lochbaum, C.C. (1989). Formative design-evaluation of SuperBook. *ACM Transactions on Information Systems*, 7(1), 30-57.
- Fenichel, C.H. (1981). Online searching: Measures that discriminate among users with different types of experiences. *Journal of the American Society for Information Science*, 32(1), 23-32.
- Fidel, R., Davies, R.K., Douglass, M.H., Holder, J.K., Hopkins, C.J., Kushner, E.J., Miyagishima, B.K., & Toney, C.D. (1999). A visit to the information mall: Web searching behavior of high school students. *Journal of the American Society for Information Science*, 50, 24–37.
- Fischhoff, B., & MacGregor, D. (1986). Calibrating databases. *Journal of the American Society for Information Science*, 37(4), 222-233.
- Ford, N., Miller, D., & Moss, N. (2003). Web search strategies and approaches to studying. *Journal of the American Society for Information Science and Technology*, 54(6), 473-489.
- Ford, N., Miller, D., & Moss, N. (2001). The role of individual differences in internet searching: An empirical study. *Journal of the American Society for Information Science and Technology*, 52, 1049–1066.
- Fu, X. (2010). Towards a model of implicit feedback for Web search. *Journal of the American Society for Information Science and Technology*, 61(1), 30-49.
- Fukumoto, T. (2006). An analysis of image retrieval behavior for metadata type image database. *Information Processing & Management*, 42(3), 723-728.
- Goodrum, A.A. (2001). Multidimensional scaling of video surrogates. *Journal of the American Society for Information Science & Technology*, 52(2), 174-182.
- Gwizdka, J., & Lopatovska, I. (2009). The role of subjective factors in the information search process. *Journal of the American Society for Information Science & Technology*, 60(12), 2452-2464.

- Gwizdka, J., & Spence, I. (2006). What can searching behavior tell us about the difficulty of information tasks? A study of web navigation. Paper presented at the ASIST Annual Meeting, 2006.
- Gwizdka, J., & Spence, I. (2007). Implicit measures of lostness and success in Web navigation. *Interacting with Computers, 19*(3), 357-369.
- Hargittai, E. (2002). Second-level digital divide: Differences in people's online skills. *First Monday, 7*(4), http://www.firstmonday.dk/issues/issue7_4/hargittai/.
- Haynes, R.B., McKibbin, K.A., Walker, C.J., et al. (1985). Computer searching of the medical literature: An evaluation of the MEDLINE searching systems. *Annals of Internal Medicine, 103*, 812-816.
- He, D., Brusilovsky, P., Ahn, J., Grady, J., Farzan, R., Peng, Y., Yang, Y., & Rogati, M. (2008). An evaluation of adaptive filtering in the context of realistic task-based information exploration. *Information Processing & Management, 44*(2), 511-533.
- Hembrooke, H.A., Granka, L.A., Gay, G.K., & Liddy, E.D. (2005). The effects of expertise and feedback on search term selection and subsequent learning. *Journal of the American Society for Information Science and Technology, 56*, 861-871.
- Henninger, S. (1994) Using iterative refinement to find reusable software. *IEEE Software, 11* (5), 48-59.
- Hersh, W. R., & Hickam, D. H. (1995). An evaluation of interactive Boolean and natural language searching with an online medical textbook. *Journal of the American Society for Information Science, 46*(7), 478-489.
- Hersh, W., Pentecost, J., & Hickam, D. (1996). A task-oriented approach to information retrieval evaluation. *Journal of the American Society for Information Science, 47*(1), 50-56.
- Hersh, W.R., Crabtree, M.K., Hickam, D.H., Sacherek, L., Friedman, C.P., Tidmarsh, P., et al. (2002). Factors associated with success in searching MEDLINE and applying evidence to answer clinical questions. *Journal of the American Medical Informatics Association, 9*, 283-293.
- Hertzum, M., & Frokjaer, E. (1996). Browsing and querying in online documentation: A study of user interfaces and the interaction process. *ACM Transactions on Computer-Human Interaction, 3*(2), 136-161.
- Hirsh, S.G. (1996). The effect of domain knowledge on elementary school children, information retrieval behavior on an automated library catalog. Unpublished doctoral dissertation, Department of Library and Information Science, University of California, Los Angeles.

- Hirsh, S.G. (1997). How do children find information on different types of tasks? Children's use of the Science Library Catalog. *Library Trends*, 45(4), 725-745.
- Hoelscher, C., & Strube, G. (2000). Web search behavior of Internet experts and newbies. Proceedings of the Ninth International World Wide Web Conference, 337-346.
- Holmes, J., Robins, D., Zhang, Y., & Salaba, A. (2008). An exploratory study of school-age children's use of a heterogeneous resource site. *Journal of Web Librarianship*, 2(2-3), 263-285.
- Hölscher, C., & Strube, G. (2000). Web search behavior of Internet experts and newbies. *Computer Networks*, 33, 337-346.
- Hsieh-Yee, I. (1993). Effects of search experience and subject knowledge on the search tactics of novice and experienced searchers. *Journal of the American Society for Information Science*, 44(3), 161-174.
- Hsieh-Yee, I. (1998). Search tactics of Web users in searching for texts, graphics, known items and subjects: A search simulation study. In H. Iyer (Ed.), *Electronic Resources: Use and User Behavior* (pp. 61-83). New York: Haworth Press.
- Iivonen, M. (1995) Factors lowering the consistency in online searching. Online Information 95: Proceedings of 19th International Online Information Meeting, 101-107.
- Iivonen, M. (1995). Consistency in the selection of search concepts and search terms. *Information Processing & Management*, 31, 173-190.
- Jacobson, T., & Fusani, D. (1992). Computer, system, and subject knowledge in novice searching of a full-text, multifile database. *Library & Information Science Research*, 14(1), 97-106.
- Jansen, B.J., Booth, D., & Smith, B. (2009). Using the taxonomy of cognitive learning to model online searching. *Information Processing & Management*, 45(6), 643-663.
- Jansen, B.J., & McNeese, M.D. 2005. Evaluating the effectiveness of and patterns of interactions with automated searching assistance. *Journal of the American Society for Information Science and Technology*, 56(14), 1480-1503.
- Jenkins, C., Corritore, C.L., & Weidenbeck, S. (2003). Patterns of information seeking on the Web: A qualitative study of domain expertise and Web expertise. *IT & Society*, 1, 66-89.
- Joachims, T., Granka, L., Pan, B., Hembrooke, H., Radlinski, F., & Gay, G. (2007). Evaluating the accuracy of implicit feedback from clicks and query reformulations in Web search. *ACM Transactions on Information Systems*, 25(2), 7.

- Joho, H., & Jose, J. M. (2006). Slicing and dicing the information space using local contexts. *Proceedings of the 1st International Conference on Information Interaction in Context*, 66-74.
- Joho, H., & Jose, J.M. (2008). Effectiveness of additional representations for the search result presentation on the web. *Information Processing and Management*, 44, 226–241.
- Jones, T. (1989). Incidental learning during information retrieval: A hypertext experiment. *ICCAL '89: Computer assisted learning: Proceedings of the Second International Conference*, 235–253.
- Kabel, S., de Hoog, R., Wielinga, B.J., & Anjewierden, A. (2004). The added value of task and ontology-based markup for information retrieval. *Journal of the American Society for Information Science and Technology*, 55(4), 348-362.
- Khan, K., & Locatis, C. (1998). Searching through cyberspace: The effects of link cues and correspondence on information retrieval from hypertext on the World Wide Web. *Journal of the American Society for Information Science*, 49(14), 1248–1253.
- Kiestra, M., Stokmans, M., & Kamphuis, J. (1994). End-users searching the online catalogue: The influence of domain and system knowledge on search patterns. *The Electronic Library*, 12, 335–343.
- Kim, J. (2006). Task difficulty as a predictor and indicator of web searching interaction. *CHI '06 Extended Abstracts on Human Factors in Computing Systems*, 959-964.
- Kim, J. (2008). Task as a context of information seeking: An investigation of daily life tasks on the Web. *LIBRI*, I(3), 172-181.
- Kim, K.-S. (1998). Information-seeking behavior on the World Wide Web: Effects of cognitive style, online database search experience and task types on search performance. Ph.D. dissertation, University of Texas at Austin.
- Kim, K.-S. (2000). Users, tasks and the Web: Their impact on the information-seeking behavior. *Proceedings of the 21st National Online Meeting*, 189–198.
- Kim, K.-S. (2001). Information seeking on the Web: Effects of user and task variables. *Library & Information Science Research*, 23(3), 233-256.
- Kim, K.-S. (2008). Effects of emotion control and task on Web searching behavior. *Information Processing & Management*, 44(1), 373-385.
- Kim, K.-S., & Allen, B. (2002). Cognitive and task influences on web searching behavior. *Journal of the American Society for Information Science and Technology*, 53(2), 109-119.

- Koenemann, J., & Belkin, N. J. (1996). A case for interaction: A study of interactive information retrieval behavior and effectiveness. *CHI '96: Human Factors in Computing Systems, Common Ground*, 205-212.
- Korthauer, R.D., & Koubek, R.J. (1994). An empirical evaluation of knowledge, cognitive style, and structure upon the performance of a hypertext task. *International Journal of Human Computer Interaction*, 6, 373-390.
- Kruschwitz, U., & Al-Bakour, H. (2005). Users want more sophisticated search assistants: Results of a task-based evaluation. *Journal of the American Society for Information Science and Technology*, 56(13), 1377-1393.
- Kules, B., & Shneiderman, B. (2008). Users can change their Web search tactics: Design guidelines for categorized views. *Information Processing & Management*, 44(2), 463-484.
- Laberge, J.C., & Scialfa, C.T. (2005). Predictors of Web navigation performance in a life span sample of adults. *Human Factors*, 47, 289-302.
- Lancaster, F. W. (1972). Evaluation of On-Line Searching in MEDLARS (AIM-TWX) by Biomedical Practitioners (No. Occasional Papers No. 101). Urbana, IL: Univ. of Illinois, Graduate School of Library Science.
- Large, A., Beheshti, J., Breuleux, A. & Renaud, A. (1994) A comparison of information retrieval from print and CD-ROM versions of an encyclopedia by elementary school children. *Information Processing & Management*, 30(4), 499-513.
- Large, A., Beheshti, J., & Rahman, T. (2002). Gender differences in collaborative web searching behavior: an elementary school study. *Information Processing and Management*, 38(3), 427-443.
- Lazonder, A.W., Biemans, H.J.A., & Wopereis, I.G.J.H. (2000). Differences between novice and experienced users in searching information on the World Wide Web. *Journal of the American Society for Information Science*, 51(6), 576-581.
- Liebscher, P. (1993). Information Seeking in Hypertext: Multiple Access Methods in a Full-text Hypertext Database. Ph.D. dissertation, University of Maryland.
- Lin, S.J., & Belkin, N.J. (2005) Validation of a model of information seeking over multiple search sessions. *Journal of the American Society for Information Science and Technology*, 56(4), 393-415.
- Lorigo, L., Pan, B., Hembrooke, H., Joachims, T., Granka, L., & Gay, G. (2006). The influence of task and gender on search and evaluation behavior using Google. *Information Processing & Management*, 42(4), 1123-1131.

- Mack, T., Manoff, M., Miller, T.J., & Smith, A.D. (2004). Designing for experts: How scholars approach an academic library Web site. *Information Technology and Libraries*, 23, 16–22.
- Mackay, J.M., & Elam, J.J. (1992). A comparative study of how experts and novices use a decision aid to solve problems in complex knowledge domains. *Information Systems Research*, 3(2), 150-172.
- Macpherson, K. (2004). An information processing model of undergraduate electronic database information retrieval. *Journal of the American Society for Information Science and Technology*, 55, 333–347.
- Macpherson, K.J. (2002). The development of enhanced information retrieval strategies in undergraduates through the application of learning theory: An experimental study. *Journal of Educational Enquiry*, 3(1).
- Madden, A.D., Eaglestone, B., Ford, N.J., & Whittle, M. (2007). Search engines: A first step to finding information: Preliminary findings from a study of observed searches. *Information Research*, 12(2), paper 294. [Available at <http://InformationR.net/ir/12-2/paper294.html>]
- Madden, A.D., Ford, N.J., Miller, D., & Levy, P. (2006). Children's use of the internet for information-seeking. What strategies do they use, and what factors affect their performance? *Journal of Documentation*, 62, 744–761.
- Marchionini, G. (1989). Information-seeking strategies of novices using a full-text electronic encyclopedia. *Journal of the American Society for Information Science*, 40(1), 54-66.
- Marchionini, G., Dwiggins, S., Katz, A., & Lin, X. (1993) Information seeking in full-text end-user-oriented search systems: The roles of domain and search expertise. *Library & Information Science Research*, 15(1), 35-69.
- Marchionini, G., Lin, X., & Dwiggins, S. (1990). Effects of search and subject expertise on information seeking in a hypertext environment. Proceedings of the 53rd Annual Meeting of the American Society for Information Science, 129-137.
- McDonald, S., & Tait, J. (2003). Search strategies in content-based image retrieval. ACM SIGIR Proceedings, 80-87.
- McKibbin, K.A., Haynes, R.B., Walker Dilks, C.J., Ramsden, M.F., Ryan, N.C., Baker, L., et al. (1990). How good are clinical MEDLINE searches? A comparative study of clinical end-user and librarian searches. *Computers and Biomedical Research*, 23, 583–593.
- Mead, S.E., Sit, R.A., Rogers, W.A., Jamieson, B.A., & Rousseau, G.K. (2000). Influences of general computer experience and age on library database search performance. *Behaviour & Information Technology*, 19(2), 107-124.

- Meadow, C.T., Wang, J., & Yuan, W. (1995). A study of user performance and attitudes with information retrieval interfaces. *Journal of the American Society for Information Science*, 46(7), 490-505.
- Merlino, A., & Maybury, M. (1999). An empirical study of the optimal presentation of multimedia summaries of broadcast news. In Mani, I., & Maybury, M.T. (Eds.), *Advances in Automatic Text Summarization* (pp. 391-401). Cambridge, MA: MIT Press.
- Morehead, D.R., & Rouse, W.B. (1983). Human-computer interaction in information seeking tasks. *Information Processing and Management*, 19(4), 243-253.
- Mynatt B.T., Leventhal L.M., Instone K., Farhat J., Rohlman D.S. (1992). Hypertext or book: Which is better for answering questions? Proceedings of Computer-Human Interface '92, 19-25.
- Navarro-Prieto, R., Scaife, M., & Rogers, Y. (1999). Cognitive strategies in web searching. <http://zing.ncsl.nist.gov/hfweb/proceedings/navarro-prieto/index.html>.
- Oldroyd, B.K., and Citroen, C.L. (1977). Study of strategies used in online searching. *Online Review*, 1, 293-310.
- Oliver, R., & Oliver, H. (1997). Using context to promote learning from information-seeking tasks. *Journal of the American Society for Information Science*, 48(6), 519 -526.
- Palmquist, R.A., & Kim, K.-S. (2000). Cognitive style and on-line database search experience as predictors of Web search performance. *Journal of the American Society for Information Science*, 51(6), 558-566.
- Pao, M.L., Grefsheim, S.F., Barclay, M.L., Woolliscroft, J.O., McQuillan, M., & Shipman, B.L. (1993). Factors affecting students' use of MEDLINE. *Computers and Biomedical Research*, 26, 541-555.
- Park, S. (2000). Usability, user preferences, effectiveness, and user behaviors when searching individual and integrated full-text databases: implications for digital libraries. *Journal of the American Society for Information Science*, 51(5), 456-468.
- Qiu, L. (1993). Analytical searching vs. browsing in hypertext information retrieval systems. *Canadian Journal of Library & Information Science*, 18, 1-13.
- Qiu, L. (1993). Markov models of search state patterns in a hypertext information retrieval system. *Journal of the American Society for Information Science*, 44(7), 413-427.
- Qiu, L. (1994). Frequency distributions of hypertext path patterns: a pragmatic approach. *Information Processing & Management*, 30(1), 131-140.

- Qu, Y., & Furnas, G.W. 2008. Model-driven formative evaluation of exploratory search: A study under a sensemaking framework. *Information Processing & Management*, 44(2), 534-555.
- Rodden, K., Basalaj, W., Sinclair, D., & Wood, K. (2001). Does organisation by similarity assist image browsing? ACM SIG CHI Proceedings, 190-197.
- Rouet, J.-F. (2003). What was I looking for? The influence of task specificity and prior knowledge on students' search strategies in hypertext. *Interacting with Computers*, 15(3), 409-428.
- Rouet, J.-F., Vidal-Abarca, E., Bert-Erboul, A., & Millogo, V. (2001). Effects of information search tasks on the comprehension of instructional text. *Discourse Processes*, 31(2), 163-186.
- Salmeron, L., Canas, J.J., & Fajardo, I. (2005). Are expert users always better searchers? Interaction of expertise and semantic grouping in hypertext search tasks. *Behaviour & Information Technology*, 24, 471-475.
- Schacter, J., Chung, G.K.W.K., & Dorr, A. (1998). Children's Internet searching on complex problems: Performance and process analyses. *Journal of the American Society for Information Science*, 49(9), 840-849.
- Sharit, J., Hernandez, M.A., Czaja, S.J., & Pirolli, P. (2008). Investigating the roles of knowledge and cognitive abilities in older adult information seeking on the Web. *ACM Transactions on Computer-Human Interaction*, 15(1), Article 3.
- Shaw, D.J., & Czaja, R.F. (1992). User interactions with the PDQ Cancer Information System. *Bulletin of the Medical Library Association*, 80(1), 29-35.
- Shenton, A., & Dixon, P. (2003). A comparison of youngsters' use of CD-ROM and the internet as information resources. *Journal of the American Society for Information Science and Technology*, 54(11) 1029-49.
- Sihvonen, A., & Vakkari, P. (2004). Subject knowledge improves interactive query expansion assisted by a thesaurus. *Journal of Documentation*, 60(6), 673-690.
- Sit, R.A. (1998). Online library catalog search performance by older adult users. *Library & Information Science Research*, 20(2), 115-131.
- Sushmita, S., Joho, H., & Lalmas, M. 2009. A task-based evaluation of an aggregated search interface. *String Processing and Information Retrieval, Proceedings 5721*: 322-333.
- Sutcliffe, A.G., Ennis, M., & Watkinson, S. J. (2000). Empirical studies of end-user information searching. *Journal of the American Society for Information Science*, 51(13), 1211-1231.

- Tabatabai, D., & Shore, B.M. (2005). How experts and novices search the Web. *Library & Information Science Research*, 27, 222–248.
- Tang, R., Shaw, W.M., Jr., & Vevea, J.L. (1999). Towards the identification of the optimal number of relevance categories. *Journal of the American Society for Information Science*, 50(3), 254-264.
- Tanin, E., Lotem, A., Haddadin, I., Shneiderman, B., Plaisant, C., & Slaughter, L. (2000). Facilitating data exploration with query previews: A study of user performance and preference. *Behaviour & Information Technology*, 19(6), 393-403.
- Te'eni, D., & Feldman, R. (2001). Performance and satisfaction in adaptive Websites: An experiment on searches within a task-adapted Website. *Journal of the Association for Information Systems*, 2(3).
- Tenopir, C., & Shu, M.E. (1989). Magazines in full text: Uses and search strategies. *Online Review*, 13(2), 107-118.
- Tenopir, C., Wang, P., Zhang, Y., Simmons, B., & Pollard, R. (2008). Academic users' interactions with ScienceDirect in search tasks: Affective and cognitive behaviors. *Information Processing & Management*, 44(1), 105-121.
- Thatcher, A. (2008). Web search strategies: The influence of Web experience and task type. *Information Processing & Management*, 44(3), 1308–1329.
- Thomas, P., & Hawking, D. (2006). Evaluation by comparing result sets in context. Proceedings of the 15th ACM International Conference on Information and Knowledge Management, 94-101.
- Timbie, M., & Coombs, D. (1969). An interactive retrieval system: Case studies on the use of DIALOG to search the ERIC document file. Stanford University, ERIC Clearinghouse of Educational Media and Technology, Stanford, CA. ED 034 431.
- Tombros, A., Ruthven, I., & Jose, J.M. (2005). How users assess Web pages for information seeking. *Journal of the American Society for Information Science and Technology*, 56(4), 327-344.
- Toms, E.G., O'Brien, H., Mackenzie, T., Jordan, C., Freund, L., Toze, S., Dawe, E., & MacNutt, A. (2008). Task effects on interactive search: The query factor. In *Focused Access to XML Documents, Lecture Notes in Computer Science*, 4862, 359-372.
- Toms, E.G., O'Brien, H.L., Kopak, R., & Freund, L. 2005. Searching for relevance in the relevance of search. Context: Nature, Impact, and Role, Proceedings, 5th International Conference on Conceptions of Library and Information Sciences (CoLIS 2005). *Lecture Notes in Computer Science*, 3507, 59-78.

- Underwood, J., Spavold, J., & Underwood, G. (1990). Novice use of a relational database: A case study of a local history data file. *Computers in Education*, 15(1-3), 227-232.
- Verheij, J., Soutjesdijk, E., & Beishuizen, J. (1996). Search and study strategies in hypertext. *Computers in Human Behaviour*, 12(1), 1-15.
- Vibert, N., Ros, C., Le Bigot, L., Ramond, M., Gatefin, J., & Rouet, J.-F. (2009). Effects of domain knowledge on reference search with the PubMed database: An experimental study. *Journal of the American Society for Information Science & Technology*, 60(7), 1423-1447.
- Wang, P., Hawk, W. B., & Tenopir, C. (2000). Users' interaction with World Wide Web resources: an exploratory study using a holistic approach. *Information Processing & Management*, 36, 229-251.
- Watters, C., Shepherd, M.A., & Qiu, L. (1994). Task-oriented access to data files: An evaluation. *Journal of the American Society for Information Science*, 45(4), 251-262.
- White, M.D., & Iivonen, M. (2001). Questions as a factor in Web search strategy. *Information Processing & Management*, 37, 721-740.
- White, R.W., & Kelly, D. (2006). A study on the effects of personalization and task information on implicit feedback performance. Proceedings of the 15th ACM International Conference on Information and Knowledge Management, 297-306.
- White, R.W., & Marchionini, G. (2006). A study of real-time query expansion effectiveness. SIGIR '06: Proceedings of the 29th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, 715-716.
- White, R.W., & Marchionini, G. (2007). Examining the effectiveness of real-time query expansion. *Information Processing & Management*, 43(3), 685-704.
- White, R.W., Jose, J.M., & Ruthven, I. (2003). A task-oriented study on the influencing effects of query-biased summarisation in web searching. *Information Processing & Management*, 39(5), 707-734
- White, R.W., Ruthven, I., & Jose, J.M. (2005). A study of factors affecting the utility of implicit relevance feedback. SIGIR '05: Proceedings of the 28th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, 35-42.
- White, R., & Ruthven, I. (2006). A study of interface support mechanisms for interactive information retrieval. *Journal of the American Society for Information Science and Technology*, 57(7), 933-948.
- White, R., Ruthven, I. & Jose, J. (2002). Finding relevant documents using top-ranking sentences: An evaluation of two alternative schemes. SIGIR 2002: Proceedings of the 25th Annual International ACM SIGIR Conference, 57-64.

- White, R.W., Jose, J.M., & Ruthven, I. (2005). Using top-ranking sentences for facilitate effective information access. *Journal of the American Society for Information Science and Technology*, 56(10), 1113-1125.
- White, R.W., Jose, J.M., & Ruthven, I. (2006). An implicit feedback approach for interactive information retrieval. *Information Processing & Management*, 42(1), 166-190.
- White, R.W. (2004). Implicit feedback for interactive information retrieval. Ph.D. dissertation, Department of Computing Science Faculty of Computing Science, Mathematics and Statistics University of Glasgow, Scotland.
- Wildemuth, B.M. (2004). The effects of domain knowledge on search tactic formulation. *Journal of the American Society for Information Science and Technology*, 55(3), 246–258.
- Wildemuth, B., de Blik, R., Friedman, C., & File, D. (1995). Medical students' personal knowledge, searching proficiency, and database user in problem solving. *Journal of the American Society for Information Science*, 46, 590–607.
- Woelfl, N.N. (1984). Individual differences in online search behavior: The effect of learning styles and cognitive abilities on process and outcome. Ph.D. dissertation, Case Western Reserve University, Cleveland, OH.
- Wolfram, D., & Dimitroff, A. (1997). Preliminary findings on searcher performance and perceptions of performance in a hypertext bibliographic retrieval system. *Journal of the American Society for Information Science*, 48(12), 1142-1145.
- Wolfram, D., & Dimitroff, A. (1998). Hypertext vs. boolean-based searching in a bibliographic database environment: A direct comparison of searcher performance. *Information Processing & Management*, 34(6), 669-680.
- Woodruff, A., Rosenholtz, R., Morrison, J. B., Faulring, A., & Pirolli, P. (2002). A comparison of the use of text summaries, plain thumbnails, and enhanced thumbnails for web search tasks. *Journal of the American Society for Information Science and Technology*, 53(2), 172-185.
- Wu, M., Muresan, G., McLean, A., Tang, M.-C. M., Wilkinson, R., Li, Y., et al. (2004). Human versus machine in the topic distillation task. Proceedings of SIGIR 2004, 385-392.
- Xu, Y., & Liu, C. (2007). The dynamics of interactive information retrieval behavior, part II: An empirical study from the activity theory perspective. *Journal of the American Society for Information Science and Technology*, 58(7), 987-998.
- Xu, Y., & Wang, D. 2008. Order effect in relevance judgment. *Journal of the American Society for Information Science and Technology*, 59(8), 1264-1275.

Xu, Y., & Yin, H. (2008). Novelty and topicality in interactive information retrieval. *Journal of the American Society for Information Science and Technology*, 59(2), 201-215.

Yang, S. (1997). Information seeking as problem-solving using a qualitative approach to uncover the novice learners' information-seeking process in a Perseus hypertext system. *Library & Information Science Research*, 19(1), 71-92.

Yee, K.-P., Swearingen, K., Li, K., & Hearst, M. (2003). Faceted metadata for image search and browsing. SIGCHI Proceedings, 401-408.

Ylikoski, T. (2005). A sequence analysis of consumers' online searches. *Internet Research: Electronic Networking Applications and Policy*, 15(2), 181-194.