

## CURRICULUM VITAE

Elizabeth DuRoss Liddy  
School of Information Studies  
343 Hinds Hall  
Syracuse, New York 13244-4100  
315-443-2736  
liddy@syr.edu

**EDUCATION:** Ph.D. Information Transfer, Syracuse University, 1988  
M.L.S. Information Studies, Syracuse University, 1977  
B.A. English Language & Literature, Daemen College, 1966

### **PROFESSIONAL EMPLOYMENT:**

2008 - Dean, School of Information Studies, Syracuse University  
2007-2008 Interim Dean, School of Information Studies, Syracuse University  
2004- Trustee Professor, School of Information Studies, Syracuse University  
2003- Adjunct Professor, Department of Pediatrics, Upstate Medical University  
1999-2007 Director, Center for Natural Language Processing, Syracuse University  
1998- Professor, Syracuse University  
1994-1999 President/CEO, TextWise LLC  
1993-1998 Associate Professor, Syracuse University  
1987-1992 Assistant Professor, Syracuse University  
1986 Adjunct Faculty, Syracuse University  
1983-1985 Visiting Assistant Professor/Research Associate, Syracuse University  
1981-1983 Assistant Professor, Onondaga Community College, Syracuse, NY  
1977-1981 Instructor, Onondaga Community College, Syracuse, NY

### **HONORS:**

Chair, ACM-SIGIR, 2007 – 2010  
Invited participant in Women's Leadership Network, 2008  
12th Annual Search Engine Conference Best Paper Award, 2007  
Post-Standard & Syracuse Federation of Women's Clubs Achievement Award, 2005  
Trustee Professor of Information Studies, Syracuse University, 2004  
Sigma Xi, The International Honor Society of Scientific & Engineering Research, 2002  
Outstanding Alumni Award, Syracuse University, 2000  
Samuel Lazerow Memorial Lecturer, University of Washington, 1999  
National Tibbetts Award from SBIR Program of U.S. Small Business Administration, 1998  
Enterprise Award for Technology from Upstate New York Technology Business Forum, 1998  
Award of Innovation for Excellence in Entrepreneurship, School of Information Studies, 1996  
Inc. Magazine's Entrepreneur of the Year Award Nominee, 1995  
ACM's Computer Professional of the Year Award Nominee, 1994, 1997  
Association for Library and Information Science Education Doctoral Dissertation Award, 1989  
American Society for Information Science Doctoral Dissertation Award, 1988  
Institute for Scientific Information Doctoral Dissertation Proposal Award, 1986  
University Fellowship, Syracuse University, 1982-1983  
SUNY Chancellor's Award for Excellence in Librarianship Nominee, 1982  
Beta Phi Mu, 1977

## **PUBLICATIONS:**

Keeling, J., Allen, E., Turner, A., Liddy, E.D., Merrill, J., Laboratory and Field Evaluation of a Prototype Search Engine to Meet Public Health Information Needs. (2009). American Medical Information Association Conference.

Gandel, P. B., Oakleaf, M., Stanton, J.M., Lankes, R.D., Cogburn, D. & Liddy, E.D. (2009). More People, Not Just More Stuff: A New Vision for Research Cyberinfrastructure. EDUCAUSE Center for Applied Research Bulletin. January, 2009.

Turner, A.M., Petrochilos, D., Nelson, D.E., Allen, E.E., & Liddy, E. D. (2009). Access and Use of the Internet for Health Information Seeking: A Survey of Local Public Health Professionals in the Northwest. Journal of Public Health Management and Practice. 15(1), E14–E16

Snyder, J., D'Eredita, M.A., Yilmazel, O. & Liddy, E.D. (2009). Towards a Cognitive Approach for the Automated Detection of Connotative Meaning. In Proceedings of the International Conference on Computational Semantics. Tilburg, The Netherlands, January 7-9, 2009.

Liddy, E.D. (2008). iSchools and the iSchool at Syracuse University. Document, Information & Knowledge. (In Chinese)

Diekema, A.R., Yilmazel, O., Bailey, J., Harwell, S.C. & Liddy, E.D. (2007). Standards Alignment for Metadata Assignment. In Proceedings of the 7<sup>th</sup> ACM-IEEE-CS Joint Conference on Digital Libraries. June 18 – 23, 2007.

Ingersoll, G., Yilmazel, O. and Liddy, E. D. (2007). Finding Answers to Your Questions. In Proceedings of 2007 IEEE 23rd International Conference on Data Engineering. April 15-20, 2007.

Yilmazel, O., Balasubramanian, N., Harwell, S.C., Bailey, J., Diekema, A.R., & Liddy, E.D. (2007). Text Categorization for Aligning Educational Standards. In Proceedings of 40th HICCS Conference. January 3 – 7, 2007.

D'Ignazio, J.A., Ryan, J.D., Harwell, S.C., Diekema, A.R. & Liddy, E.D. (2007). Examining Perception of Digital Information Space. In Proceedings of the 7<sup>th</sup> ACM-IEEE-CS Joint Conference on Digital Libraries. June 18 – 23, 2007.

Symonenko, S., Rowe, S. & Liddy, E.D. (2006). Illuminating Trouble Tickets with Sublanguage Theory. In Proceedings of the Human Language Technology / North American Association of Computational Linguistics Conference.

McCracken, N.J., Diekema, A.R., Ingersoll, G., Harwell, S.C., Allen, E.E., Yilmazel, O. & Liddy, E.D. (2006). Modeling Reference Interviews as a Basis for Improving Automatic QA Systems. In Proceedings of the Workshop on Interactive Question Answering. HLT-NAACL Conference.

Rubin, V.L. & Liddy, E.D. (2006). Assessing Credibility of Weblogs. In Proceedings of the AAAI Spring Symposium on Blogs. Stanford, CA.

Liddy, E.D., Symonenko, S. & Rowe, S. (2006). Sublanguage Analysis Applied to Trouble Tickets. In Proceedings of the 19th International Florida Artificial Intelligence Research Society Conference.

Rubin, V. L., Liddy, E.D. & Kando, N. (2006). Certainty Identification in Texts: Categorization Model and Manual Tagging Results. In Shanahan, J., Qu, J. & Wiebe, J. (Eds.). Computing Attitude and Affect in Text. Springer, Dordrecht, The Netherlands.

Liddy, E.D. (2005). Automatic Document Retrieval. In Encyclopedia of Language and Linguistics. 2nd Edition. Elsevier Press.

Turner, A.M., Liddy, E.D., Bradley, J. & Wheatly, J. (2005). Modeling Public Health Interventions for Improved Access to the Public Health Grey Literature. Journal of the Medical Library Association, 93(4): 487-94.

Liddy, E.D. & McCracken, N.J. (2005). Hands-On NLP for an Interdisciplinary Audience. In Proceedings of the ACL Teaching Natural Language Processing Workshop. Ann Arbor, MI.

Liddy, E.D., Gay, G.K., Finneran, C.M, Hembrooke, H.A. & Granka, L.A. (2005). MetaTest Final Report for NSF Grant No. 0226312.

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 & Technology. 56:8; 861-871.

Liddy, E.D. (2005). Metadata: A Promising Solution. Educause Review. May/June, 40:3.  
<http://www.educause.edu/ir/library/pdf/erm0536.pdf>

Diekema, A.R., Hannouche, J., Ingersoll, G., Oddy, R.N. & Liddy, E.D. (2005). Analyst-Focused Arabic Information Retrieval. Proceedings of the International Conference on Intelligence Analysis. McClean, VA. May 2-4. [https://analysis.mitre.org/proceedings/Final\\_Papers\\_Files/264\\_Camera\\_Ready\\_Paper.pdf](https://analysis.mitre.org/proceedings/Final_Papers_Files/264_Camera_Ready_Paper.pdf)

Yilmazel, O., Symonenko, S., Balasubramanian, N. & Liddy, E.D. (2005). Leveraging One-Class SVM and Semantic Analysis to Detect Anomalous Content. In Intelligence and Security Informatics: IEEE International Conference on Intelligence and Security Informatics Proceedings. May 19-20. Lecture Notes in Computer Science. Springer-Verlag.

Yilmazel, O., Symonenko, S., Balasubramanian, N. & Liddy, E.D. (2005). Improved Document Representation for Classification Tasks For the Intelligence Community. In Proceedings of the AAAI Stanford Spring Symposium. March, 2005.

DelZoppo, B., Brown, E., Downey, M., Liddy, E. D., Park, J. S., D'Eredita, M., Symonenko, S., Ho, S. M., and Natarajan, A. (2005) Situational Awareness for Countering Insider Threats: A Multi-Disciplinary Approach. Proceedings of the FiestaCrow 2005 Symposium, San Antonio, TX.

Diekema, A.R., Yilmazel, O., Chen, J., Harwell, S., He, L. & Liddy, E.D. (2004). Finding Answers to Complex Questions. In Maybury, M. (Ed.) New Directions in Question Answering. AAAI-MIT Press.

Liddy, E.D. (2004). Extraction of Elusive Information from Text. Proceedings of the International Association of Science and Technology for Development Conference on Knowledge Sharing and Collaborative Engineering. St. Thomas, US Virgin Islands.

Liddy, E.D., Diekema, A.R., & Yilmazel, O. (2004). Context-Based Question-Answering Evaluation. In Proceedings of the 27th Annual ACM-SIGIR Conference. Sheffield, England.

- Diekema, A.R., Yilmazel, O., & Liddy, E.D. (2004). Evaluation of Restricted Domain Question-Answering Systems. In Proceedings of EACL Workshop on Question Answering in Restricted Domains. Barcelona, Spain.
- Yilmazel, O., Finneran, C.M. & Liddy, E.D. (2004). MetaExtract: An NLP System to Automatically Assign Metadata. In Proceedings of the 2004 Joint Conference on Digital Libraries.
- Symonenko, S., Liddy, E.D., Yilmazel, O., DelZoppo, R., Brown, E. & Downey, M. (2004). Semantic Analysis for Monitoring Insider Threats. In Proceedings of 2nd Symposium on Intelligence and Security Informatics. Tucson, Arizona.
- Rubin, V. L., Kando, N. & Liddy, E.D. (2004). Certainty Categorization Model. In Exploring Attitude and Affect in Text: Theories and Applications. AAAI Spring Symposium Series. March 22-24, 2004.
- Rubin, V. L., Stanton, J.M. & Liddy, E.D. (2004). Discerning Emotions in Text. In Exploring Attitude and Affect in Text: Theories and Applications. AAAI Spring Symposium Series. March 22-24, 2004.
- Hsiao, W.Y., Chen, J. & Liddy, E.D. (2003). A Web Application for English-Chinese Cross Language Patent Retrieval. In Proceedings of 5th International Conference on Enterprise Information Systems. Angers – France.
- Liddy, E.D., Diekema, A., Chen, J., Harwell, S., Yilmazel, O., and He, L. (2003). What Do You Mean? Finding Answers to Complex Questions. Proceedings of New Directions in Question Answering. AAAI Spring Symposium, March 24-26.
- Yilmazel, O., Ozgencil, N.E. & Liddy, E.D. (2003). LiVIA - Linguistic and Visual Information Access Phase I. Final Technical Report. Center for Natural Language Processing, Syracuse, NY.
- Liddy, E.D. (2003). Natural Language Processing. In Encyclopedia of Library and Information Science, 2nd Ed. NY. Marcel Decker, Inc.
- Hert, C., Liddy, E.D., Shneiderman, B. & Marchionini, G. (2003). Supporting Statistical Electronic Table Usage by Citizens. Communications of the ACM. 46:1.  
<http://portal.acm.org/citation.cfm?id=602449&jmp=abstract&dl=GUIDE&dl=ACM>
- Liddy, E.D. (2002). How a Search Engine Works. In Mintz, A. (Ed.). Web of Deception: Misinformation on the Internet. Information Today, Medford, NJ.
- Liddy, E.D. (2002). Why are People Asking These Questions? A Call for Bringing Situation into Question-Answering Evaluation. LREC Workshop Proceedings on Question Answering – Strategy and Resources. Grand Canary Island, Spain. May 28, 2002.
- Chen, J., Diekema, A.R., Taffet, M.D., McCracken, N., Ozgencil, N.E., Yilmazel, O. & Liddy, E.D. (2002). Question Answering: CNLP at the TREC-10 Question Answering Track. Proceedings of TREC 2001 Conference. NIST, Gaithersburg, VA.
- Hwang, J., Aravamudham, P., Liddy, E.D., Stanton, J. & I. MacInnes. (2002). Charging Control & Transaction Accounting Mechanisms Using IRTL Middleware for P2P Services. Lecture Notes in Computer Science, 2511, 239-49.
- Liddy, E.D. (2002). A Breadth of NLP Applications. ELSENEWS of the European Network in Human Language Technologies. Winter.

Liddy, E.D. & Liddy, J.H. (2001). An NLP Approach for Improving Access to Statistical Information for the Masses. Proceedings of the Federal Committee on Statistical Methodology Research Conference. Arlington, VA. <http://www.fcsm.gov/01papers/Liddy.pdf>

Liddy, E.D. (2001). Making Your Internship Program Pay Off. Network Computing Magazine. August 6, 2001.

Liddy, E.D. (2001). Information Security and Sharing. Online Magazine. May/June, 2001. [http://www.onlineinc.com/onlinemag/OL2001/liddy5\\_01.html](http://www.onlineinc.com/onlinemag/OL2001/liddy5_01.html)

Liddy, E.D. (2001). How a Search Engine Works. Searcher Magazine. 9:5, May, 2001. <http://www.infotoday.com/searcher/may01/liddy.htm>

Feldman, S. & Liddy, E.D. (2001). The Searching Quagmire. Searcher Magazine. 9:5, May, 2001. pp. 66-76.

Liddy, E.D. (2000). Searching & Search Engines: When is Current Research Going to Lead to Major Progress? Proceedings of the 2000 International Chemical Information Conference & Exhibition. Annecy, France.

Liddy, E.D. (2000). Text Mining. Bulletin of American Society for Information Science & Technology. <http://www.asis.org/Bulletin/Oct-00/liddy.html>

Hert, C., Marchionini, G., Liddy, E.D. & Shneiderman, B. (2000). Interacting with Tabular Data through the World Wide Web. In Federal Committee on Statistical Methodology (ed). Proceedings of the Seminar on Integrating Federal Statistical Information and Processes. (Statistical Policy Working Paper 32). Washington DC: Statistical Policy Office. Office of Information and Regulatory Affairs. Office of Management and Budget. (pp. 219-226). <http://istweb.syr.edu/~tables>

Marchionini, G., Hert, C., Liddy, E.D., Shneiderman, B. (2000). Extending Understanding of Federal Statistics in Tables. Proceedings of ACM Conference on Universal Usability. ACM, New York, 132-38.

Yu, E.S., Koo, P.C., Liddy, E.D. (2000). Evolving Intelligent Text-Based Agents. Proceedings of the 4th International Conference on Intelligent Agents.

Liddy, E.D., Diamond, T. & McKenna, M. (2000). DR-LINK in TIPSTER III. Information Retrieval Journal. <http://www.wkap.nl/oasis.htm/279780>

Diamond, T. & Liddy, E. (1999). Dynamic Data Fusion. TIPSTER Text Program Phase III Proceedings. Morgan Kaufmann.

McKenna, M. & Liddy, E. (1999). Multiple & Single Document Summarization using DR-LINK. TIPSTER Text Program Phase III Proceedings. Morgan Kaufmann.

Liddy, E.D. (1999). NLP-Supported Decision Making. Proceedings of the IEEE Computer Software and Applications Conference.

Liddy, E.D. (1999). MedLink for Improved Information Access to Alternative Medicine. Proceedings of the American Medical Informatics Conference. Montreal, CA.

Liddy, E.D. & Yu, E.S. (1999). Feature Selection in Text Categorization Using the Baldwin Effect. Proceedings of International Joint Conference on Neural Networks. Washington DC.

Diekema, A., Oroumchian, F., Sheridan, P. & Liddy, E.D. (1999). TREC-7 Evaluation of Conceptual Interlingua Document Retrieval (CINDOR) in English and French. In. E.M. Voorhees & D.K. Harman (Eds.). The Seventh Text REtrieval Conference (TREC-7). National Institute of Standards & Technology (NIST), Gaithersburg, MD. pp. 169-80.

Yu, E.S., Diamond, T., Christiaanse, V. & Liddy, E.D. (1999). EMMA: Evolving and Messaging Decision Making Agents. Final Technical Report. Rome Lab.

Liddy, E.D. (1998). Knowledge Discovery using KNOW-IT. Proceedings of the 1998 IEEE Information Technology Conference.

Paik, W., Liddy, E.D., Allen, E., Brown, E., Farris, A., Irwin, R., Liddy, J.H., & Niles, I. (1998). Applying Link Analysis to Automatically Extracted Information from Texts Within KNOW-IT. Proceedings of the 1998 AAAI Symposium on Artificial Intelligence & Link Analysis.

Liddy, E.D. (1998). Beyond Retrieval. Proceedings of the 19th Annual National Online Meeting.

Liddy, E.D. (1998). Enhanced Text Retrieval Using Natural Language Processing. Bulletin of the American Society for Information Science. Vol 24, No. 4. <http://www.asis.org/Bulletin/Apr-98/liddy.html>

McKenna, M. & Liddy, E.D. (1998). Evaluation of automatic text summarization across multiple documents. Proceedings of the AAAI Conference on Intelligent Text Summarization.

Liddy, E.D. (1997). Natural Language Processing for Information Retrieval and Knowledge Discovery. Proceedings of the 34th Annual Conference on DPC. University of Illinois at Urbana-Champaign.

Paik, W., Liddy, E.D., Yu, E.S. & McKenna, M. (1996). Categorizing and standardizing proper nouns for efficient information retrieval. In Boguraev, B. (Ed.). Corpus Processing for Lexicon Acquisition. Cambridge, MA. MIT Press.

Jorgensen, C. & Liddy, E.D. (1996). Information access or information anxiety? An exploratory evaluation of book index features. The Indexer.

Liddy, E.D., Paik, W., McKenna, M. & Yu, E.S. (1995). A natural language text retrieval system with relevance feedback. Proceedings of the 16th National Online Meeting.

Liddy, E.D. (1995). The promise of natural language processing for competitive intelligence. Proceedings of 10th International Conference of the Society of Competitive Intelligence Professionals.

Liddy, E.D., Paik, W. & McKenna, M. (1995). Development and implementation of a discourse model for newspaper texts. In Proceedings of the AAAI Symposium on Empirical Methods in Discourse Interpretation and Generation. Stanford, CA.

Liddy, E.D. (1995). Development and implementation of a discourse model for newspaper texts. Proceedings of the Dagstuhl on Summarizing Text for Intelligent Communication. Saarbrücken, Germany.

Weiner, M.L. & Liddy, E.D. (1995). Intelligent text processing, and intelligence tradecraft. The Journal of AGSI. July.

- Liddy, E.D., Yu, E., McKenna, M. & Li, M. (1994). Detection, generation, and expansion of complex nominals. Proceedings of the Workshop on Compound Nouns. Geneva, Switzerland. December, 1994.
- Liddy, E.D. & Myaeng, S.H. (1994). DR-LINK System: Phase I Summary. Proceedings of the TIPSTER Phase I Final Report.
- Liddy, E.D., Paik, W., Yu, E.S. (1994). Text categorization for multiple users based on semantic information from a MRD. ACM Transactions on Information Systems.
- Liddy, E.D., Paik, W., Yu, E.S. & McKenna, M. (1994). Document retrieval using linguistic knowledge. Proceedings of RIAO '94 Conference.
- Liddy, E.D. (1994). Electronic texts and traditional indexes: A study of applicability and performance. Annual Review of OCLC Research, 1992-93.
- Liddy, E.D., Eisenberg, M.B., McClure, C.R., Mills, K., Mernit, S. & Lockett, J.D. (1994). Research agenda for the Intelligent Digital Library. Proceedings of Digital Libraries '94. Texas A & M University, College Station, TX.
- Liddy, E.D. & Myaeng, S.H. (1994). DR-LINK: A system update for TREC-2. Proceedings of Second Text Retrieval Conference (TREC-2). National Institute of Standards and Technology.
- Jorgensen, C. & Liddy, E.D. (1994). An analysis of information seeking behaviors in index use, or opening Pandora's box. Proceedings of the 15th National Online Meeting.
- Liddy, E.D., Jorgensen, C.L., Sibert, E.E. & Yu, E.S. (1993). A sublanguage approach to Natural Language Processing for an expert system. Information Processing & Management. 29:5, pp. 633-645.
- Liddy, E.D. (1993). An alternative representation for documents and queries. Proceedings of the 14th National Online Meeting.
- Liddy, E.D. & Jorgensen, C.L. (1993). Reality Check! Book index characteristics that facilitate information access. Proceedings of the 25th Annual Meeting of the American Society of Indexers.
- Liddy, E.D. & Myaeng, S. H. (1993). DR-LINK's linguistic-conceptual approach to document detection. Proceedings of First Text Retrieval Conference (TREC-1). NIST.
- Liddy, E.D. & Paik, W. (1993). Document filtering using semantic information from a machine readable dictionary. Proceedings of the ACL Workshop on Very Large Corpora.
- Myaeng, S.H. & Liddy, E.D. (1993). Information retrieval with semantic representation of texts. Proceedings of the Second Annual Symposium on Document Analysis and Information Retrieval.
- Liddy, E.D. & Lauterbach, D. (1993). Automatic construction of a semantic lexicon for use in natural language processing systems. Final Report to AFOSR.
- Paik, W., Liddy, E.D., Yu, E.S. & McKenna, M. (1993). Categorizing and standardizing proper nouns for efficient information retrieval. Proceedings of the ACL Workshop on Acquisition of Lexical Knowledge from Text.
- Liddy, E.D., McVearry, K., Paik, W., Yu, E.S. & McKenna, M. (1993). Development, implementation & testing of a discourse model for newspaper texts. Proceedings of the ARPA Workshop on Human

Language Technology, Princeton, NJ, March 21-24, 1993.

Paik, W., Liddy, E.D., Yu, E.S., McKenna, M. (1993). Interpretation of proper nouns for information retrieval. Proceedings of the ARPA Workshop on Human Language Technology, Princeton, NJ, March 21-24, 1993.

Liddy, E.D., Paik, W., Yu, E.S. & McVearry, K. (1993). An overview of DR-LINK and its approach to document filtering. Proceedings of the ARPA Workshop on Human Language Technology, Princeton, NJ, March 21-24, 1993.

Liddy, E.D. & Myaeng, S.H. (1992). DR-LINK Project Description. SIGIR Forum.

Liddy, E.D. (1992). The art of back-of-the-book indexes. Annual Review of OCLC Research, 1991-92.

Liddy, E.D., Paik, W. & Woelfel, J. (1992). Use of subject field codes from a machine-readable dictionary for automatic classification of documents. Proceedings of 3rd ASIS Classification Research Workshop.

Liddy, E.D. & Paik, W. (1992). Use of multiple knowledge sources for word sense disambiguation. In Proceedings of the 2nd Pacific Rim International Conference on Artificial Intelligence. Seoul, Korea.

Liddy, E.D. & Paik, W. (1992). Statistically-guided word sense disambiguation. In Proceedings of AAAI Fall '92 Symposium on Probabilistic Approaches to Natural Language. Boston.

Oddy, R. N., Liddy, E.D., Balakrishnan, B., Bishop, A., Elewononi, J. & Martin, E. (1992). Towards the use of situational information in information retrieval. Journal of Documentation.

Liddy, E. D. & Paik, W. (1992). Automatic recognition of thematic roles and semantic relations in text using the maximum coincidence search technique. In Proceedings of Informatics 11 Conference, University of York, England.

Liddy, E.D. & Allen, E. (1992). Film News Index. Hawthorne Press.

Bishop, A. P., Liddy, E.D. & Settel, B. (1991). Index quality study, Part I: Quantitative description of back-of-the-book indexes. In Indexing Tradition and Innovation: Proceedings of the 22nd Annual Conference of the American Society of Indexers.

Liddy, E. D., Bishop, A. P. & Settel, B. (1991). Index quality study, Part II: Publishers Survey And Qualitative Assessment. In Indexing Tradition and Innovation: Proceedings of the 22nd Annual Conference of the American Society of Indexers.

Liddy, E. D. (1991). The discourse-level structure of empirical abstracts: An exploratory study. Information Processing and Management, 27:1, pp. 55-81.

Liddy, E.D., Jorgensen, C.L., Sibert, E. & Yu, E.S. (1991). Sublanguage grammar in natural language processing. Proceedings of RIAO '91 Conference. Barcelona.

Liddy, E.D. & Paik, W. (1991). An intelligent semantic relation assigner. Proceedings of Workshop on Natural Language Learning. Sponsored by IJCAI '91, Sydney, Australia.

Francis, H. & Liddy, E. D. (1991). Structured representation of theoretical abstracts: Implications for user interface design. In Dillon, M. (Ed.). Interfaces for information retrieval and online systems. Greenwood Press.

Liddy, E.D. (1991). Development of a methodology for extracting semantic relations from definitions. Final Report to Air Force Office of Scientific Research, Summer Research Program.

Liddy, E.D., Bishop, A., & Settel, B. (1990). Study of back-of-the-book index quality. Annual Review of OCLC Research, 1989-90.

Liddy, E.D., Hert, C.A., Doty, P. (1990). Roget's International Thesaurus: Conceptual issues and potential applications. Proceedings of ASIS '90 Classification Workshop, pp. 95-100.

Liddy, E. D. (1990). Anaphora in natural language processing and information retrieval. Information Processing and Management. 26:1 pp. 39-52.

Liddy, E.D., et al. (1990). Kellogg Adult Education Thesaurus (KAET). School of Information Studies, Syracuse University.

Liddy, E. D. (1989). Explorable vocabularies. Proceedings of the First International Lexical Acquisition Workshop. Sponsored by AAAI in conjunction with IJCAI-89, Detroit, August 21, 1989.

Liddy, E. D., Jorgensen, C. L., Sibert, E. & Yu, E. S. (1989). Processing natural language for an expert system using a sublanguage approach. Proceedings of the 52nd Annual Meeting of the American Society for Information Science.

Bishop, A., Francis, H., Liddy, E.D., Martin, E. & Oddy, R. (1989). Textual Analysis of Information Need Statements and Document Abstracts. Final Report to The Council on Library Resources Research Grants Program. School of Information Studies, Syracuse University.

Bonzi, S. & Liddy, E. D. (1989). The use of anaphoric resolution for document description in information retrieval. Information Processing & Management. Vol. 25, pp. 429-41.

Kwasnik, B., Liddy, E.D., Myaeng, S.H. (1989). Automatic Knowledge Extraction from Dictionary Text: Project Development. Case Center Technical Report #8911. Case Center, Syracuse University.

Balakrishnan, B., Bishop, A., Elewononi, J., Liddy, E.D., Martin, E., & Oddy, R. (1988). Use of Document Frame-Structure Clues in Negotiating Ill-Formed Information Needs. Final Report, US West Advanced Technologies.

Bonzi, S. & Liddy, E.D. (1988). The Use of Anaphoric Resolution for Document Description in Information Retrieval. In Proceedings of ACM-SIGIR 11th International Conference on Research & Development in Information Retrieval, ACM, Inc., 1988, 53-66.

Bonzi, S. & Liddy, E.D. (1988). Testing the Assumption Underlying Use of Anaphora in Natural Language Texts. In Proceedings of the 51st Annual Meeting of the American Society for Information Science. Learned Information, 1988, 23-30.

Liddy, E.D. (1988). The discourse-level structure of natural language texts: An exploratory study of empirical abstracts. (Doctoral dissertation, Syracuse University).

Liddy, E.D. (1988). Structure of Information in Full-Text Abstracts. In Proceedings of RIAO 88 Conference on User-Oriented Content-Based Text and Image Handling. MIT Press, 1988, 183-195.

Liddy, E. D. (1987). Discourse - Level Structure in Abstracts. In Proceedings of the 50th Annual Meeting of the American Society for Information Science, Vol. 24, 1987, 138-47.

Liddy, E.D., Bonzi, S., Katzer, J., & Oddy, E. (1987). A Study of Discourse Anaphora in Scientific Abstracts. Journal of the American Society for Information Science. Vol. 38, 1987, 255-61.

Katzer, J., Bonzi, S., & Liddy, E.D. (1986). The Effects of Anaphoric Resolution on Retrieval Performance: Preliminary Findings. In Proceedings of the American Society for Information Science Annual Meeting, Vol. 23, 1986, 118-22.

Katzer, J., Bonzi, S. & Liddy, E.D. (1986). Impact of Anaphoric Resolution in Information Retrieval. Final Report, National Science Foundation, July, 1986.

**SELECTED PRESENTATIONS:** (Unpublished)

Liddy, E.D. (2008). A Strategy for Developing eLeadership. ECAR Symposium, Boca Raton, FL, Dec 3-5.

Liddy, E.D. (2008). NLP & the iSchool Vision: A Reprise. Invited Presentation. Inaugural Convocation, College of Information, Library Science, and Technologies, University of North Texas at Denton. November 13.

Liddy, E.D. (2008). The Subtle Side of Search. Invited Presentation. University of North Carolina at Charlotte's College of Computing and Informatics & the Center for Humanities, Technology and Science. October 17.

Liddy, E.D. & Diekema, A.R. (2008). Metadata Assignment & Search Tool (MAST) Project. Shanghai University Digital Library Workshop. Shanghai, China, May 30.

Liddy, E.D. (2008). The iSchool at Syracuse. Invited Presentation. University College Thursday Morning Round Table. Syracuse, NY. March 13.

Liddy, E. D. (2008). NLP Research and the iSchool Vision. Invited Keynote Address. Third Annual iSchool Conference. UCLA. February 28.

Liddy, E.D., Turner, A.M., Merrill, J. (2007). Improving Public Health Grey Literature Access for the Public Health Workforce. Invited Talk at National Institute of Health. Washington, DC. November 5.

Liddy, E.D. & D'Eredita, M. (2007). Towards a Model for Understanding the Connotative Meaning of Text: A Blue Sky Project. IARPA's AQUAINT-3 Annual Meeting. San Antonio, TX. Oct 31 – Nov 1.

Liddy, E.D., Ingersoll, G., Yilmazel, O. (2007). Pro-Active Question-Answering. Search Engine Meeting, Boston, MA. April 23-24. [Best Paper Award]

Liddy, E.D., Yilmazel, O. & D'Eredita, M. (2006). Understanding the Connotative Meaning of Text: A Blue Sky Project. DTO's AQUAINT-3 PI Kick-Off Meeting. Santa Fe, NM. Nov 1-3.

Liddy, E.D. (2006). Searching the Long Tail. I-School Conference. Ann Arbor, MI. Oct 15-17.

- Liddy, E.D. (2006). Building a Digital Library for Health Care Professionals. Libraries in the Digital Age Conference. Dubrovnik, Croatia. May 29-June 4.
- Liddy, E.D. (2006). Leveraging the Unrealized Value in Trouble Tickets. Search Engine Meeting. Boston, MA. April 24 & 25. <http://www.infonortics.com/searchengines/sh06/slides/liddy.pdf>
- Liddy, E.D. & Diekema, A.R. (2006). NLP for NSDL and All of NSF! Invited Talk. National Science Foundation. January 25.
- Liddy, E.D. (2005). Sublanguage Theory for Leveraging the Unrealized Value in Trouble Tickets. University of Michigan Information School. December 12.
- Liddy, E.D. (2005). MetaTest: A Tripartite Evaluation. American Society for Information Science & Technology. Charlotte, N.C., Oct 30 – Nov 2.
- Liddy, E.D. (2005). Generating & Evaluating Automatic Metadata for Educational Resources. European Conference on Digital Libraries. Vienna, AU, Sept. 19-21.
- Liddy, E.D. (2005). The Future of Natural Language Processing. Text Analysis Workshop. Advanced Scientific Computing Program, Department of Homeland Security. Washington, D.C., May 25-26.
- Liddy, E.D. (2005). Information Exploitation. IBM Industry Solutions. Hawthorne, NY., May 12.
- Liddy, E.D. (2005). Question-Answering Authoring Tools. Search Engine Meeting. Boston, MA. April 11 & 12, 2005. <http://www.infonortics.com/searchengines/sh05/slides/liddy.pdf>
- Turner, A.M., Liddy, E.D. & Bradley, J. (2004). Progress Towards Automated Grey Literature Public Health Intervention Summaries. In Proceedings of the 6th International Conference on Grey Literature. New York Academy of Medicine. NYC, NY, December 6 & 7, 2004.
- Liddy, E.D. (2004). Advances in Extraction of Elusive Information from Text. AFRL Transformation and Operations in Cyberspace Conference. Hamilton College. June 15-16.
- Liddy, E.D. (2004). The Subtle Side of Retrieval. Search Engine Conference. The Hague, The Netherlands. April 19-21, 2004.
- Yilmazel, O., Finneran, C. M. & Liddy, E. D. (2004). MetaExtract: An NLP System to Automatically Assign MetaData. Joint Conference on Digital Libraries. Tucson, Arizona.
- Liddy, E.D. (2004). Contextualized Question-Answering System Applications. Invited Seminar Speaker. IBM Watson Research Center, Yorktown Heights, NY. March 12, 2004.
- Turner, A.M., Liddy, E.D., Bradley, J., Wheatley, J.A. & Corieri, S.B. (2004). Improved Access to the Public Health Grey Literature Through Automatically Generated Document Surrogates. Poster. MedInfo Conference, San Francisco, CA.
- Liddy, E.D. (2004). Overview of Center for Natural Language Processing. Invited Seminar Speaker. CyCorp Seminar. Austin, TX, January 30, 2004.
- Liddy, E.D. (2004). Building and Maintaining Research Strengths. ALISE Annual Conference. San Diego, CA. January 6-8, 2004.

- Liddy, E.D. (2003). Question Answering in Contexts. Invited Keynote Speaker. ARDA AQUAINT Annual Meeting. Washington, DC. Dec 2-5, 2003.
- Liddy, E.D. & Finneran, C. (2003). MetaTest: Three-Way Evaluation of Automatic Metadata Generation. Joint IMLS/NSDL Conference. Dec. 1 –2, 2003.
- Liddy, E.D. & Finneran, C. (2003). Developing & Evaluating Metadata for Improved Information Access. NSF-NSDL Annual Meeting. Washington, DC. Oct 12-15, 2003.
- Liddy, E.D. (2003). Natural Language Processing for Text Extraction Applications. Keynote Speaker. Thomson 8th Annual Text Summit. Minneapolis, MN. October 8, 2003.
- Liddy, E.D. (2003). A New Paradigm for Question-Answering Systems. Invited Speaker. Vanguard Technology Transfer Institute's Knowledge Management Comes of Age Conference, Washington, D.C. September 23-24, 2003.
- Liddy, E.D. (2003). Automating and Evaluating Metadata Generation. Libraries in the Digital Age Conference. Dubrovnik, Croatia. May 25-28, 2003.
- Liddy, E.D. (2003). 30 Applications of Information Technology to E-Rulemaking. National Conference on Digital Government Research. Boston, MA, May 18-21, 2003.
- Liddy, E.D. (2003). Automating and Evaluating Metadata Generation. InfoToday 2003 Conference. NYC, May 6-8, 2003.
- Liddy, E.D. (2003). Automating and Evaluating Automatic Metadata Generation. Search Engine Conference. Boston, MA, April 7-8, 2003.
- Chen, J., Diekema, A., Yilmazel, O., Liddy, E.D. (2002). Automatic Question-Answering in the Aerospace Domain. Proceedings of the Virtual Reference Desk Conference. Chicago, IL, November 11-12, 2002. <http://www.vrd.org/conferences/VRD2002/proceedings/chen.shtml>
- Liddy, E.D., McCracken, N., & Yilmazel, O. (2002). Advances in Evidence Extraction. DARPA Evidence Extraction and Link Discovery PI Annual Meeting. San Diego, CA., Oct. 28-31, 2002.
- Liddy, E.D. (2002). Semantic Annotation. MuchMore's European Union Project Review Meeting. Hvar, Croatia. Sept. 15-18, 2002
- Liddy, E.D. (2002). Specializing Evidence Extraction Using Transformation Based Learning. TIDES Annual Principal Investigators Meeting. Santa Monica, CA., July 25, 2002
- Liddy, E.D., Gay, G., Harwell, S. & Finneran, T. (2002). A Modest (Metadata) Proposal. Joint Conference on Digital Libraries. Portland, OR, July 17, 2002.
- Liddy, E.D. (2002). Advanced NLP-Based Information Extraction. Fusion-2 Workshop. Rome Lab, Utica, NY, June 26, 2002.
- Liddy, E.D. & Liddy, J.H. (2002). An NLP Approach for Improving Citizen Access to Statistical Information. Department of Statistics & Statistical Laboratory and Computer Science Department Seminar. Iowa State University, Ames, Iowa, April 29, 2002.

- Liddy, E.D., (2002). Moving from Document Retrieval to Question-Answering. School of Computer Science, Queens College, City University of New York, NYC, NY, April 24, 2002.
- Liddy, E. D., (2002). Why Settle for a List When You Want an Answer? Search Engine Conference. San Francisco, CA, April 16, 2002.
- Liddy, E.D. (2001). Why Settle for a List When You Want an Answer? The Digital Frontier: Buffalo Summit 2001. Buffalo, NY., Nov. 3-4, 2002.
- Liddy, E.D. (2001). Breaking the Metadata Generation Bottleneck. Joint Conference on Digital Libraries. Roanoke, VA, June 25, 2001.
- Liddy, E.D. (2001). Data-Mining, MetaData, and Digital Libraries. DIMACS Workshop on Data Analysis and Digital Libraries. Rutgers University, May 17, 2001.
- Liddy, E.D. (2001). When You Want an Answer, Why Settle for A List? Intranets 2001 Conference. Santa Clara, CA, May 2, 2001.
- Liddy, E.D. (2001). Getting Grey Literature Out from the Shadow of Inaccessibility. Internet Librarian International Conference. London, March 26, 2001.
- Liddy, E.D. (2001). Combining Intelligent Agents with an NLP-based Search Engine. Invited Presentation to NSA's Research Council. Washington, DC, January 12, 2001.
- Liddy, E.D. (2000). Evolving Intelligent Text-based Agents for Geospatial Information Retrieval. Invited Presentation to National Reconnaissance Office. Washington, DC, November 30, 2000.
- Liddy, E.D. (2000). How Might CLIR Be Accomplished? ASIST Annual Meeting, Chicago, IL, November 13, 2000.
- Liddy, E.D. (2000). Applications of Natural Language Processing. Annual Science Meeting. Unilever Research Group. Chester, England. Oct. 18, 2000.
- Liddy, E.D. (2000). Information Security and Sharing. Intranets East Conference. Reston, VA, October 17, 2000.
- Liddy, E.D. (2000). Natural Language Processing for Indexing. Indexer's Consortium Annual Meeting. San Diego, CA. Sept. 17, 2000.
- Liddy, E.D. (2000). Evolving Intelligent Text-based Agents for Geospatial Information Retrieval. National Imagery and Mapping Agency Annual Conference. Washington, DC, July 19, 2000.
- Liddy, E.D. (2000). In-Depth Natural Language Processing for Rich Semantic Annotation. COLING Workshop on Semantic Annotation & Intelligent Content, Luxembourg, August 5, 2000.
- Liddy, E.D. & Liddy, J.H. (2000). Understanding Users' Queries in Relation to Statistical Table Metadata.. Bureau of Labor Statistics, Washington, DC. September 15, 2000.
- Liddy, E.D. (1999). Natural Language Processing Applications & Experiments. Microsoft NLP Research Group. Redwood, WA, Dec. 2, 1999.
- Liddy, E.D. (1999). Text Mining for Decision Making. Samuel Lazerow Memorial Lecture. University of Washington. Dec 1, 1999.

- Liddy, E.D. (1999). Analytics for Visualization. Online World Conference. Chicago, IL. October 27, 1999.
- Liddy, E.D. (1999). Whither Come the Words: A Continuum from Human to Statistical Indexing. CENDI Conference. Washington, D.C. September 9, 1999.
- Liddy, E.D. (1999). Natural Language Processing for Enhanced Information Access. SUNY/OCLC Reference Services Conference. NYC. June 4, 1999.
- Liddy, E.D. (1999). Achievable Knowledge Management. 20th Annual National Online Conference. May 19, 1999.
- Liddy, E.D. (1999). Breaking Through the Language Barrier. 20th Annual National Online Conference. May 18, 1999.
- Liddy, E.D. (1999). Conceptual Inter-Lingua Approach to Cross Language Retrieval. Search Engines Conference. Boston, MA. April 20, 1999.
- Liddy, E.D. (1999). Link Analysis Using KNOW-IT. AIPA Conference. Washington, DC. March 24, 1999.
- Liddy, E.D. (1998). Technology Transfer from TIPSTER-1. TIPSTER III 24-Month Conference. Washington, DC. October 13, 1998.
- Liddy, E.D. (1998). What Natural Language Processing Can Do For You. Online World Conference. Washington, DC. October 12, 1998.
- Liddy, E.D. (1998). Natural Language Processing for Knowledge Discovery. Information Assurance Workshop. Monterey, CA. August 31, 1998.
- Liddy, E.D. (1998). Rich Indexing with DR-LINK. CENDI Conference, Bethesda, MD. June 17, 1998
- Liddy, E.D. (1998). Information Access & Analytics. Special Libraries Association Conference, Indianapolis, IN. June 8, 1998.
- Liddy, E.D. (1998). KNOW-IT: Knowledge-base Information Tools. DARPA's Joint Command & Control Symposium, Monterey, CA. May 4, 1998.
- Liddy, E.D. (1998). EVA - Evolving Intelligent Agents for Geo-spatial Information Retrieval. NURI Symposium, Seaside, Fla. April 21, 1998.
- Liddy, E.D. (1998). Beyond Document Retrieval. AIIP 12th Annual Conference, St. Louis, MO. April 3, 1998.
- Liddy, E.D. (1998). Information Analytics: Extraction and Beyond. The 1998 Search Engines Conference, Boston, MA. April 1, 1998
- Liddy, E.D. (1998). Knowledge Based Information Tools, AIPA '98 Symposium, Tysons Corner, VA. March 17, 1998.

- Liddy, E.D. (1997). Automated text extraction using natural language processing. Social Network Analysis Workshop. Joint Warfare Analysis Center. October 16, 1997.
- Liddy, E. D. (1997). Knowledge-based information tools. Information 2000: Intelligent Information for the Next Millenium. Rome Lab/DARPA Conference. October 7, 1997.
- Liddy, E.D. (1997). Technology transfer: A case study. Rome Laboratory Information Institute Annual Meeting. Minnowbrook Conference Center. June 10, 1997.
- Liddy, E.D. (1997). Rich Retrieval on Rich Representations. National Federation of Abstracting and Indexing Services Conference. Philadelphia. May 21, 1997.
- Liddy, E.D., Paik, W., & Niles, I. (1997). A proposition-based answer-providing system. Symposium on Advanced Information Processing and Analysis. Marcy 26, 1997.
- Liddy, E.D. (1996). The intelligent digital librarian. Columbia University Digital Libraries Symposium Series. New York City. April 8, 1996.
- Liddy, E.D., Paik, W., Yu, E., Balakrishnan, B., & Srinivasan, S. (1996). Cross-language retrieval using CINDOR. Advanced Information Processing & Analysis Symposium, Washington, D.C. March 27, 1996.
- Liddy, E.D. (1996). Entrepreneurship & Librarianship: A case study. Conference on Theory into Practice: Educational Pathways for Librarians. Association of College & Research Libraries & Special Libraries Association, Syracuse, March 8, 1996.
- Liddy, E.D. (1994). Intelligent information retrieval via natural language processing, or, An Intelligent Digital Librarian. Mid-Year Meeting of the American Society for Information Science, Portland, Oregon, May, 1994.
- Liddy, E.D., Eisenberg, M.B., McClure, C.R., Mills, K., Mernit, S. & Lockett, J.D. (1994). The intelligent digital library. The 1994 Workshop on Digital Libraries: Current Issues. Newark, NJ, May, 1994.
- Liddy, E.D. (1994). Development of a Connectionist NLP Implementation of DR-LINK. Invited presentation. Symposium on Advanced Information Processing and Analysis. Tysons Corner, VA, March 23, 1994.
- Liddy, E.D. (1993). Use of extractable semantics from a machine readable dictionary for information tasks. Invited SIGIR Panel on Information Retrieval at the Joint International Conference of the Association for Computers and the Humanities and The Association for Literary and Linguistic Computing. Georgetown University, Washington, D.C., June 18, 1993.
- Liddy, E.D. (1993). Document Retrieval Using Linguistic Knowledge. Invited presentation. CASE Center Spring Symposium. Syracuse, NY, April 1, 1993.
- Liddy, E.D. (1993). Document processing in the DR-LINK Project. Invited presentation. Symposium on Advanced Information Processing and Analysis. Tysons Corner, VA, March 3, 1993.
- Liddy, E.D. (1992). DR-LINK in the TIPSTER Project: Enhancing retrieval effectiveness in a large, operational domain. Invited paper. Presented at 55th Annual Meeting of the American Society for Information Science, Pittsburgh PA, October, 1992.

Liddy, E.D. (1992). The use of discourse in DR-LINK. Invited seminar. Presented at G. E. Research & Development Center, Schenectady, NY, November 24, 1992.

Liddy, E.D., Paik, W. & McVearry, K. (1992). Automatic recognition of discourse structure in newspaper texts. Invited paper. Presented at Society for Text and Discourse Annual Meeting, July, 1992.

Liddy, E. D. (1991). Comparative analysis of index characteristics: Professional vs. non-professional indexers. Invited paper. Presented at 23rd Annual Meeting of American Society of Indexers. Minneapolis, June, 1991.

Liddy, E.D. (1990). Extraction and use of definitional relations in semantic representations. 53rd Annual Meeting of the American Society for Information Science, Toronto, Canada, November, 1990.

Liddy, E.D. (1990). Microcomputer-based text indexing. Midyear Meeting of American Society for Information Science, Fort Lauderdale, Florida, May, 1990.

Liddy, E. D. & Paik, W. (1990). Automatic recognition of semantic roles in text. Cognitive Neuroscience Seminar sponsored by Department of Psychology, Syracuse University, November, 1990.

Oddy, R.N. & Liddy, E.D. (1990). Use of situational information in information retrieval Canadian Association for Information Science Annual Conference, Kingston, Ontario, May, 1990.

Liddy, E. D. & Oddy, R. N. (1989). Information retrieval as discourse. Refereed paper presented at Informatics 10 - Conference of the British Association for Information Management, University of York, York, England, March, 1989.

Liddy, E.D. (1989). The discourse-level structure of natural language text: An exploratory study of empirical abstracts. Research Forum of ALISE Conference, Washington, D.C.

Liddy, E.D. (1988). The discourse-level structure of natural language text: An exploratory study of empirical abstracts. Doctoral Forum of ASIS Annual Meeting, Atlanta, Georgia. October, 1988.

## **RESEARCH GRANTS RECEIVED**

2008-2010	Co-P.I. – CyberInfrastructure-Facilitators: Information Architects across the STEM Disciplines. National Science Foundation. \$249,000.
2008-2009	Co-P.I. – Enhancing Access to Digital Collections using Automatic Metadata Assignment and Search Tools. Institute for Museum & Library Science. \$191,114.
2008	Co-P.I. – Connotative Meaning in Military Chat Communications. Air Force Research Lab. \$22,000.
2007-2008	Co-P.I. – State Content Standards Alignment Services. Verizon ThinkFinity Foundation. \$175,000.
2006-2007	P.I. – Understanding the Connotative Meaning of Text. Disruptive Technologies Office. \$111,191.
2006-2009	Co-P.I. – Improving Public Health Grey Literature Access for the Public Health Workforce. National Institutes of Health – National Library of Medicine. \$448,821.
2006-2007	P.I. – Planning Grant for Improved Access to JSTOR – Mellon Foundation. \$40,000.
2006	Co-P.I. – A Multi-Disciplinary Approach to the Computer Aided Classification Analytics Project. Applied Research Laboratory – University of Texas. \$65,000.
2006	Co-P.I. – Revolutionary Learning Environment. Year 5. NASA. \$120,000.
2005-2006	P.I. Phase III LiVIA System. Syracuse Research Corporation. IR&D. \$189,000.

2005-2008 Co-P.I. – Investigating the Dynamics of Free/Libre Open Source Software Development Teams. NSF. \$684,882.

2005 P.I. – TEGO: An Information Sensitivity Assessment Tool. Rome Lab SBIR Phase I Sub-Contract with 21st Century Technologies. \$25,000.

2004-2005 P.I. – Feasibility Study of NLP Representation of Field Service Tickets. ConEdison, Inc., \$48,658.

2004-2006 Co-P.I. – Computer-Assisted Standard Assignment & Alignment. NSF- NSDL. \$634,218.

2003-2005 Co-P.I. – A Context, Role, and Semantics Based Approach for Countering Malicious Insider Threats. Information Assurance for the US Intelligence Community. ARDA. \$822,683.

2003-2006 Co-P.I. – GAAN: Multidisciplinary Project in Mathematics and Information Studies. Department of Education. \$535,515.

2003-2004 P.I. – Cross-Language Information Exploitation of Arabic. Department of Homeland Security. \$496,000.

2003-2006 Co-P.I. – Multidisciplinary Systems Assurance Education. NSF Federal Cyber Service: Scholarship for Service Program. \$2,519,166.

2003 P.I. – Workshop on Scenario-based Question Answering. ARDA. \$75,000.

2002-2004 P.I. – MetaTest. NSF. National Science Digital Library Project. \$498,506.

2002-2003 P.I. – Intelligent Information Retrieval and Extraction using Natural Language Processing. Syracuse Research Corp. \$238,263.

2001-2003 Co-P.I. – Modeling Public Health Interventions for Improved Access to the Grey Literature. Robert Wood Johnson Foundation. \$390,000. <http://www.rwjf.org/reports/grr/042668.htm>

2001-2004 P.I. – Advanced Capabilities for Evidence Extraction. DARPA. \$800,000.

2001-2003 Co-P.I. StandardConnection: Mapping Educational Objects to Content Standards. NSF-NSDL. \$475,000.

2001-2003 P.I. – Army Intelligence Extension of the AIDE Project. U.S. Army. \$104,000.

2001-2003 Co-P.I. – Revolutionary Learning Environment. NASA. \$3,115,000.

2001-2003 Co-P.I. – Adaptive Interactive Discovery Environment. AT&T. \$500,000.

2000-2002 P.I. – Breaking the Metadata Generation Bottleneck. NSF-NSDL. \$366,000

2001 P.I. – Generic Event Recognition and Extraction. US Air Force. \$107,000.

2000-2001 P.I. – Scouting Study of Natural Language Processing. Unilever Corp. \$150,000

2000 P.I. – Information Retrieval & Information Extraction. BabbleArt, Inc. \$95,290

1999-2000 P.I. – eQuery. In-Q-Tel. \$390,000

1999-2001 P.I. – Seedling Project for Evidence Extraction and Link Discovery. DARPA. \$100,000

1999-2000 P.I. – EMMA: Evolving and Messaging Decision Making Agents. SBIR Phase II Award. U.S. Air Force Research Labs. \$750,000.

1999 P.I. – Docket. SBIR Phase I Award. NSF. \$100,000.

1999 P.I. – Docket. SBIR Phase I Award. DARPA. \$100,000.

1998-1999 P.I. – KNOW-IT BETA TEST. DOD. \$100,000.

1998 P.I. – MEDLINK. SBIR Phase I Award. National Library of Medicine, NIH. \$98,672.

1998 P.I. – EMMA: Evolving and Messaging Decision Making Agents. SBIR Phase I Award. U.S. Air Force Research Labs. \$99,250.

1997-2000 P.I. – High Performance Knowledge Base Program (HPKB). DARPA. \$2,148,648

1997-2001 P.I. – University Research Initiative Program. EVA: Evolving Intelligent Text-based Agents for Geospatial Information Retrieval. National Imagery and Mapping Agency. \$587,881.

1997-1999 P.I. – Conceptual Interlingua Document Retrieval (CINDOR). CIA. \$2,417,836.

1997-1999 P.I. – Conceptual Interlingua Document Retrieval (CINDOR) SBIR-Phase II Award. DARPA. \$746,024.

1997-1998 P.I. – TIPSTER Query Specific Evidence Combination. TIPSTER Program. DARPA. \$499,813.

1996-1998 P.I. – CHESS: Chronological Information Extraction Program. SBIR-Phase II Award. U.S. Air Force Research Labs. \$687,069

1996-1997 P.I. – Visualization of Extracted Information. DOD. \$200,000

- 1995-1996 P.I. – Information Extraction from Text Through Application of Advanced Processing Techniques. SBIR-Phase I Award. U.S. Department of Defense. \$69,117.
- 1994-1995 P.I. – Feasibility Study of a Multilingual Text Retrieval Product. SBIR-Phase I Award. U.S. Army Missile Command. \$93,138.
- 1994-1995 P.I. – Conceptual Interlingua for Document Retrieval. ORD Research Award. \$120,000.
- 1993-1996 Co-P.I. – Augmented Award for Science & Engineering Research Training. Office of Naval Research. \$121,237.
- 1993 Co-P.I. – Linking On-Campus and Distance Students Through Electronic Learning Activities. Faculty Instructional Grants Program. \$2,980.
- 1992-1993 Co-P.I. – Augmentation of DARPA Research Contract. Drug Enforcement Administration. \$291,520.
- 1992-1993 P.I. – Electronic Texts and Traditional Indexes: A Study of Applicability and Performance. OCLC. \$15,000.
- 1992 P. I. – Automatic Construction of a Semantic Lexicon for use in Natural Language Processing Systems. Research Initiation Program. Air Force Office of Scientific Research. \$20,000.
- 1991 - 1993 Co-P.I. – Document Retrieval Using Linguistic Knowledge, TIPSTER Project. DARPA \$680,950.
- 1991 P. I. – Development of a Methodology for Extracting Semantic Relations from Definitions. Summer Research Grant. Air Force Office of Scientific Research \$6,900.
- 1989 - 1990 Co-P.I. – Index Quality Study. OCLC. \$3,000.
- 1989 Co-P.I. – Knowledge Extraction from Text. Seed Grant. Center for Advanced Technology in Computer Applications and Software Engineering at Syracuse University. \$12,726.
- 1988 Co-P.I. – Sublanguage Development. Mutual of New York Life Insurance Co. \$55,332.
- 1987 - 1988 Co-P.I. – Use of Document Frame-Structure Clues in Negotiating Ill-formed Information Needs. U.S. West Advanced Technologies. \$95,567.
- 1987 - 1988 Co-P.I. – Textual Analysis of Information Need Statements and Document Abstracts. Council on Library Resources. \$24,913.
- 1987 Co-P. I. – Automatic Document Description with Anaphoric Resolution. Research Grant. Syracuse University Senate. \$5,951.
- 1986 Investigator. – Text-level Structure of Scientific Abstracts. Research Grant. Syracuse University Senate. \$980.
- 1984 - 1986 Research Associate. – Impact of Anaphoric Resolution in Information Retrieval. Grant: 8313716. National Science Foundation. \$145,960.

### **PATENTS ISSUED:**

- Natural Language Processing System for Semantic Vector Representation which Accounts for Lexical Ambiguity. Inventors: E. D. Liddy, W. Paik, E. S. Yu. (U.S. Patent No. 5,873,056)
- Natural Language Information Retrieval System and Method. Inventors: E. D. Liddy, W. Paik, M. McKenna, M. Li. (U.S. Patent No. 5,963,940)
- User Interface and Other Enhancements for Natural Language Information Retrieval System and Method. Inventors: E. D. Liddy, W. Paik, M. McKenna, M. Weiner, E. S. Yu, T. Diamond, B. Balakrishnan, D. Snyder. (U.S. Patent No. 6,026,388)
- Multilingual Document Retrieval Service and Method Using Semantic Vector Matching. Inventors: E. D. Liddy, W. Paik, E. S. Yu, M. Li. (U.S. Patent No. 6,006,221)
- Management and Analysis Of Document Information Text. Inventors: R. Calistri-Yeh, D. Snyder, M. Weiner, E. Yu, & E. D. Liddy. (U.S. Patent No. 6,038,561)
- Information Extraction System and Method Using Concept-Relation-Concept Triples. Inventors: W. Paik, E. D. Liddy, J. Liddy, I. Niles, E. Allen. (U.S. Patent No. 6,076,088)
- A System for Retrieving Information from the Internet Using Multiple Intelligent Agents. Inventors: E. Yu & E. D. Liddy. (U.S. Patent No. 6,304,864)

## **PATENT APPLICATION PENDING:**

System and Method for Controlling Distribution of Information from a Secure Domain. Inventors: E. D. Liddy, W. Paik. (Filed 1999)

## **SERVICE:**

**School of Information Studies:** IST Dean Search Committee – 2006-2007  
Faculty Advisor, Women in Technology – 2001-2007  
Search Committee, IT Assistant - 2004  
Hinds Hall Planning Committee – 2001-04  
Envisioning Committee – 2003-04  
Chair, Search Committee for Director of Business Processes & Grants Management - 2002  
Faculty Search Committee – 2001-02  
Grand Challenges Conference Steering Committee – 2000-02  
Committee on Accreditation – 2000-01  
IST Web Advisory Committee – 2000-02  
Unified Search Committee – 1999-2000  
Chair, Search Committee for Dean’s Assistant – 2000  
MLS FPAG – 1999-2004  
Chair, Personnel Committee – 1995-96; 2000-01  
Executive Committee – 1987-90; 1996-2007  
Information Technology Committee – 1993-98  
PhD Committee – 1994-99; 2002-06  
Co-Chair, MLS Search Committee – 1997-98  
TN&M Search Committee – 1996-97  
Chair, Search Committee for Director of Career Planning - 1996  
MLS Search Committee – 1995-96  
IST Dean Search Committee – 1994-95  
PhD Task Force – 1989-93  
Software Engineering Initiative – 1990-91  
Financial Aid Committee – 1989-93  
Personnel Committee – 1988-89  
Curriculum Committee – 1986-87; 1991-92

**University:** Compliance Advisory Committee – 2009 - 2010  
RCM Research Task Force – 2008 - 2009  
International Relations Task Force – 2008 - 2009  
Search Committee - JPMorgan Chase Professorship – 2007-08  
A Year of Exploration: Interdisciplinary Speaker Series Committee – 2006-07  
Judith Greenberg Seinfeld Distinguished Fellow Selection Committee - 2006  
Kauffman Collegiate Entrepreneurship Initiative – 2003; 2006  
Women’s Studies Advisory Board – 2003-06  
Creativity, Innovation and Entrepreneurship Learning Community Fellow – 2004  
Chancellor’s Strategic Communications Advisory Council – 2002-2003  
Chair, SPIRE Committee on Information Technology & Management – 2001-03  
Search Committee, Technology Transfer Director – 2002; 2006  
Senate Committee on Academic Freedom, Tenure & Professional Ethics - 2001  
Chair, University Web Advisory Committee – 2000-01  
Search Committee, Executive Director of OSP - 2000

Search Committee, Technology Transfer Director of OSP – 1999  
Chancellor’s Commission on Strategic Communications – 1998-2002  
Institutional Review Board – 1998-2007  
University Librarian Search Committee – 1997-98  
CASE Center Board of Directors – 1997-2002  
Tenure Seminar - 1995-96  
SUVN Migration Committee – 1994-95  
Board of Graduate Studies – 1990-93  
Honorary Degree Committee – 1987-91  
University Senate – 1987-89

Profession:

Area Chairs

Area Chair for IR – Association for Computational Linguistics Conference – 2008  
Area Chair for IR & QA – HLT-NAACL Conference – 2007  
Area Chair for IR – Human Language Technologies / Empirical Natural Language Processing Conference – 2005

Boards

Advisory Board of International Collaborative Academy of Library and Information Science at Wuhan University, China – 2008-  
Editorial Board, ACM’s Transactions on Information Systems Journal – 2002-  
Editorial Board, Information Processing and Management – 1995-  
Advisory Board, Linguist Listserv – 2001-  
Advisory Board - Albany Law School Science & Technology Law Center - 1997

Chair

ACM-SIGIR Chair, 2007-09  
Chair, Doctoral Consortium, ACM-SIGIR, 2007  
Co-Chair, Sustainability Committee, NSF National Science Digital Library, 2005-07  
Chair, Best Paper Award Committee, ACM-SIGIR Conference, 2006  
Secretary, ACM-SIGIR – 1999-2001; 2001-03  
Chair, Technology Standing Committee, NSF’s National Science Digital Library – 2002  
Chair-elect & Chair of Automated Language Processing Special Interest Group of American Society for Information Science  
Chair – Posters ACM-SIGIR – 1995, 1996, 1999

Committees / Groups

Technical Program Committee – RIAO 2010  
Biomedical Library and Informatics Review Committee of the National Library of Medicine, 2005-09  
Steering Committee, IMLS Digital Collections and Content Project for University of Illinois, 2006-07  
Advisory Group, Institute of Museum and Library Services Project, Examining Present Practices to Inform Future Metadata Use: An Empirical Analysis of MARC Content Designation Utilization at University of North Texas. 2004-06.  
Natural Language Processing & Computational Linguistics, 2005  
Sustainability Committee, NSF’s National Science Digital Library, 2003-04; 2004-05  
Executive Committee – Northeast Regional Research Center for the Advanced Research and Development Agency of the US – 2002-05

Organizing Committee. AAAI Symposium on Exploring Attitude & Affect in Text:  
Theories & Applications. 2004  
Central New York Software Executives Roundtable – 1996 – 2001  
New York Academy of Sciences  
Nominating Committee, ASIS – 1997

#### Conference Participation

Advanced Information Processing & Analysis Symposium  
American Association for Artificial Intelligence  
American Library Association  
American Society for Information Science and Technology  
American Society of Indexers  
Association for Computational Linguistics  
Association for Computing Machine Special Interest Group for Information Retrieval  
Association for Library and Information Science Education  
Cognitive Science Society  
Digital Government (NSF)  
European Conference on Information Retrieval  
International Joint Conference on Artificial Intelligence  
Intranets and Intranets East  
Joint Conference on Digital Libraries  
Language Resources & Evaluation  
Libraries in the Digital Age  
National Conference on Digital Government Research  
National Science Digital Library Conference  
Search Engine Meeting  
Society for Text and Discourse  
TREC

#### Leader/Judge

Judge, Siemens Westinghouse National Math, Science, Technology High School  
Competition, 2005  
Judge for ASIS Doctoral Dissertation and ISI Dissertation Proposal Awards  
Leader, NLP Area – DTO Convened Workshop on Future Directions for HLT – 2007.

#### Panels

Panelist on National Public Radio's Talk of the Nation. Spoke on "A World Without  
Walls". November, 2001  
Scientific Review Panel, NIH – 1999, 2000, 2006-09  
NSF Funding Review Panel – 1996, 2001, 2004-5, 2008  
NISO Invitational Panel on Establishing a New Standard for Electronic Thesauri – 1999

#### Mentor

Mentor, ACM-SIGIR Doctoral Consortium – 2005, 2007, 2008

#### Reviewer

Reviewer for joint ACL-IJCNLP 2009  
Panel Reviewer – Center for Disease Control – 2007  
Reviewer for IEEE Intelligent Systems Special issue on IS in Government 2005  
Reviewer, International Joint Conference on Natural Language Processing 2005  
Reviewer, Conference on Information and Knowledge Management 2005

Reviewer, Empirical Methods in Natural Language Processing Conference – 2002  
Reviewer, National Research Council of the National Academies – “Youth,  
Pornography, and the Internet: Can We Provide Sound Choices in a Safe Environment?”  
– 2001  
Peer reviewer for NSF, Division of Information, Robotics & Intelligent Systems.  
Peer reviewer for Research Council of Canada  
Conference Reviewer for: ASIST, ACM SIGIR, Empirical Methods in NLP Workshop,  
Language Resources & Evaluation, COLING, ACL, CIKM.  
Reviewer for Information Processing and Management, Journal of the American Society  
for Information Science & Technology, Transactions of Office Information  
Systems, Computational Linguistics, Journal of Natural Language Engineering  
Book reviewer for Information Processing and Management, Information Retrieval  
Journal, JASIST, American Reference Book Annual, and Library Science Book  
Review Annual.

#### Technical Program Committees

Technical Program Committee – ACL-IJCNLP Workshop on NLP & IR for Digital  
Libraries  
Technical Program Committee – AAAI Workshop on Synergy Between Wikipedia &  
Research in Artificial Intelligence – 2008  
Technical Program Committee for ACM-SIGIR – 1995-2008  
Technical Program Committee, RIAO Conference, 2007  
Technical Program Committee for CIKM Conference – 2000-08  
Technical Program Committee, ACL-COLING Conference – 2006, 2008  
Technical Program Committee, International Conference on Intelligence Analysis, 2005  
Technical Program Committee, ACL Workshop on Effective Tools & Methodologies for  
Teaching, 2005  
Technical Program Committee, SIGIR Workshop on Stylistic Analysis of Text for  
Information Access, 2005  
Technical Program Committee for International Conference on Intelligence Analysis ‘05  
Technical Program Committee. RIAO 2004  
Technical Program Committee. COLING 2004  
Technical Program Committee. HLT/NAACL 2004 Conference Workshop on Pragmatics  
of Question Answering. 2004  
Technical Program Committee for ANLP-NAACL-2000 Workshop on Automatic  
Summarization – 2001  
Technical Program Committee, COLING-2002  
Technical Program Committee for Workshop on QA Systems, LREC Conference -2002  
Technical Program Committee - IJCAI - 1995

#### Tutorials

Tutorials on Data Mining – Search Engines Conference – 2001; Intranets 2001  
Conference – 2001  
Tutorial on Information Retrieval and Natural Language Processing. ACM-SIGIR  
Annual Conference 1993-94.  
Tutorial on Natural Language Processing and Information Retrieval, Annual Meeting of  
the Association for Computational Linguistics, 1993

#### Workshops

Convener & Leader, ARDA-NRRC Workshop on Scenario-Based Question-Answering.  
2003  
Convener, Workshop on Medical Informatics Research in Central New York - 2002

Organizing Committee IJCAI Workshop on AI in Digital Libraries - 1997  
Faculty Continuing Education Workshop on Natural Language Processing at SUNY at  
Cortland

Community: Board of Directors, Onondaga County Resource Recovery Agency, 2000-2004  
Board of Directors, Westcott East Neighborhood Association, 2001-2004  
Visitor, Jail Ministry Program  
Habitat for Humanity's Women Build, 2005