

**Nancy Jean McCracken**  
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### **Professional Preparation**

Earlham College	Mathematics	B.A., 1971
Syracuse University	Computer and Information Science	Ph.D., 1979

### **Appointments**

2007 -            Research Associate Professor, School of Information Studies (IST), Syracuse University (SU), Syracuse, NY

2003 – 2007    Research Associate Professor, Center for Natural Language Processing (CNLP), IST,

2000 – 2003     SU Senior Research Associate, CNLP, IST, SU

1989 – 2000    Senior Research Scientist, Northeast Parallel Architectures Center (NPAC), SU

1989 – 1992    Manager of Research Consulting, NPAC, SU

1987 -            Affiliated Faculty, Dept. of Engineering and Computer Science (EECS), SU

1987 – 1989    Research Consultant, NPAC. SU

1984 – 1987    Senior Research Associate, School of Computer & Information Science (CIS), SU

1982 – 1984    Associate Professor, CIS, SU

1978 – 1982    Assistant Professor, CIS, SU

### **Selected Publications**

McCracken, Nancy, Yan, Jasy Liew Suet, and Crowston, Kevin. Design of an Active Learning System with Human Correction for Content Analysis. Workshop on Interactive Language Learning, Visualization and Interfaces, 52<sup>nd</sup> Annual Meeting of the Association for Computational Linguistics, June 2014.

Yan, Jasy Liew Suet, McCracken, Nancy, and Crowston, Kevin. Optimizing Features in Active Machine Learning for Complex Qualitative Content Analysis. Workshop on Language Technologies and Computational Social Science, 52<sup>nd</sup> Annual Meeting of the Association for Computational Linguistics, June 2014.

Han, Jongwoo and McCracken, Nancy, Impacts of Twitter Communications upon President Obama's Health Care Reform: Call-To-Action (CTA) and Opinion Analyses, *Hawaii International Conference on Arts and Humanities*, January 2012.

McCracken, N., and A.R. Diekema, Publishing Digital Museum Collections on the Web Using the Metadata Assignment and Search Tool . In J. Trant and D. Bearman (eds). *Museums and the Web 2010: Proceedings*. Toronto: Archives & Museum Informatics. Published March 31, 2010. Consulted April 12, 2010.

Ozgenicil, N.E., McCracken, N. and Mehrotra, K.G. A Cluster-Based Classification Approach to Semantic Role Labeling. *Proceedings of the Twenty-First International Conference on*

- Industrial Engineering and Other Applications of Applied Intelligent Systems*, Poland, June 2009. Presentation by Nancy McCracken given a Best Paper Award.
- Mehrotra, K.G., Ozgencil, N.E., and McCracken, N. Squeezing the Last Drop: Cluster-based Classification Algorithm, *Journal of Statistics and Probability Letters*, Special Issue, Elsevier, March 2007.
- McCracken, N., Ozgencil, N.E. and Symonenko, S. Combining Techniques for Event Extraction Summary Reports. In *Proceedings of the Event Extraction Workshop*, AAAI, Boston, July 2006.
- McCracken, N.J., Diekema, A.R., Ingersoll, G., Harwell, S.C., Allen, E.E., Yilmazel, O. and Liddy, E.D., Modeling Reference Interviews as a Basis for Improving Automatic QA Systems. *Proceedings of the Interactive Question Answering Workshop*, HLT/NAACL, New York, June 2006.
- Liddy, E.D. and McCracken, N.M. Hands-On NLP for an Interdisciplinary Audience. *Effective Tool and Methodologies for Teaching Natural Language Processing and Computational Linguistics Workshop*, 2005.
- Light, M., Ittycheriah, A., Latto, A. and McCracken, N. Reuse in Question Answering: A Preliminary Study. In Maybury, M. (Ed.) *New Directions in Question Answering*. AAAI-MIT Press, 2004.
- Liddy, E., Allen, E., Harwell, S., Corieri, S., Yilmazel, O., Ozgencil, N.E., Diekema, A., McCracken, N., Silverstein, J., and Sutton, S. Automated metadata generation & evaluation. In: *Proceedings of the 25th annual international ACM SIGIR conference on Research and development in information retrieval*, 401-402. New York: ACM Press, 2002.
- McCracken, N. Representing Textual Content in a Generic Extraction Model. *Proceedings of the AAAI Spring Symposium: Acquiring and Using Linguistic and World Knowledge for Information Access*, Stanford University, March 25-27, 2002.

### **Synergistic Activities**

Affiliated Professor with the Center for Natural Language Processing (CNLP), supervising projects with CNLP staff and graduate students related to information extraction, machine learning and data repositories.

### **Recent Research Grants and Contracts**

Principal Investigator for “SoCS: Socially intelligent computing for coding of quantitative data”, September 2011 – September 2014, National Science Foundation (NSF), \$747,000.

Principal Investigator for “Enhancing Access to Digital Collections using Automatic Metadata Assignment and Search Tools”, partnered with University Corporation of Atmospheric Research in Boulder, Colorado, funded by the Institute of Museum & Library Services (IMLS), January 2009 – September 2010, \$157,000.

Project Leader for the “Classification Assistance Project” with Advanced Research Lab at the University of Texas, funded by In-Q-Tel, March 2006 - May 2007.

Senior Researcher for Investigating the Dynamics of Free/Libre Open Source Software Development Teams, funded by NSF, HSD, 2006 - 2008.

Project Leader for TEGO, an Information Sensitivity Assessment Tool, AFRL SBIR with 21st Century Technologies, May - December 2005.

Primary Responsibility for Advanced Countermeasures for Insider Threat, Phase II, ARDA Advanced Information Assurance, February 2005- March 2007.

Project Leader for Evidence Extraction and Link Discovery, DARPA research contract, October 2001 - March 2004.

### **Recent Academic Courses**

IST 664 Natural Language Processing, fall 2008 – 2013

IST 400/600 Mining Social Web Data, fall 2012 and spring 2014

IST 256 Programming for Information Applications (using Java), spring 2009 – spring 2014

IST 790 Ph.D. Seminar in Natural Language Processing, fall 2013

IST 800 Ph.D. Seminar in Information Retrieval, fall 2012

IST 565 Data Mining, fall 2008 – 2010

IST 657 Information Retrieval Systems, spring 2009