

Charles Welty

Professor of Computer Science

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Education

Computer and Information Science Dept., University of Massachusetts, Amherst.
M.S., 1977. Ph.D., 1979
Electrical Engineering and Computer Science Dept., University of California,
Berkeley. B.S. 1967. M.S. 1968.

Positions Held

Professor/Associate Professor, Computer Science Dept., Univ. of Southern Maine,
Portland, ME. 9/79 - present.
Assistant Professor, Computer Science and Statistics Dept., Calif. Polytechnic State
Univ., San Luis Obispo, CA. 9/71 - 8/74.
Instructor, Computer Science Dept., Morehouse College, Atlanta, GA. 9/68 - 6/70.

Publications and Presentations

Welty, C. [Usage of and Satisfaction with Online Help vs. Search Engines for Aid in Software Use](#). ACM sigDOC 2011 Conference (Special Interest Group on Design of Documentation). October 3-5, 2011, Tirrenia, Pisa, Italy

Welty, C. *Preference for and Efficacy of Using Online Help vs. Search Engines for Aid with Software Problems*. Abstract virtually presented at the 7th International Conference on Technology, Knowledge, and Society, March 25 – 27, 2011, Bilbao, Spain.

Welty, C. (chair), Heines, J.M., Menzin, M. *Teaching Computer Scientists to Play Well with Others (panel session)*, CCSCNE 2010 (Consortium for Computing Sciences in Colleges, Northeast section), Univ. of Hartford, April 16-19, 2010. Attached and available at <https://www.cs.usm.maine.edu/~welty/CCSCNE2010/Playing%20well%20with%20others%20Abstract%20and%20Positions.pdf>

Welty, C. *W(h)ither Help?* Presentation, TechMaine UUUG (Usability/User

Experience User Group), Sept. 28, 2010, Portland, ME.

Welty, C. "[Undergraduate Graphical User Interface Course](#)", NSF CCLI Showcase, SIGCSE 2000, Austin, TX. March 9 - 11, 2000.

Welty, C. "[Resources for Undergraduate User Interface Implementation Courses](#)" at CCSCNE '98 (Consortium for Computing in Small Colleges Northeastern Regional Conference, 1998) at Sacred Heart University (Fairfield, CT), April 24, 1998.

Welty, C. "SQL as a Metric." Journal of Database Management, Vol. 1, No. 1 (Summer 1990), pp. 2-10.

Mitchell, J. and Welty, C. "[Experimentation in Computer Science: An Empirical View.](#)" International Journal of Man-Machine Studies, vol. 29, no. 6 (Dec., 1988), pp. 613-624.

<https://www.sciencedirect.com/science/article/abs/pii/S0020737388800695?via%3Dihub>

Welty, C. "Correcting user errors in SQL." International Journal of Man-Machine Studies, vol. 22, no. 4 (April 1985), pp.463-477.

<https://www.sciencedirect.com/science/article/abs/pii/S0020737385800511>

Welty, C. and Stemple, D.W. "[Human factors comparison of a procedural and a nonprocedural query language.](#)" ACM TODS 6,4 (Dec. 1981), 626-649.

Grants Received

Undergraduate Graphical User Interface Course. NSF. July 1999 - July 2001.
Equipment to support a GUI course. NSF No. DUE – 9950236

"Language evolution through human factors testing." IBM Corp. May 1981 through Sept. 1982. Human factors research on the query language SQL.