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Education

The University of Colorado at Boulder, *Ph.D.* Computer Science, May 1998. Rutgers University, *Master of Science*, Computer Science, May 1985. Lock Haven State College, *Bachelor of Science*, Math Computer Science, May 1983.

Professional Experience

Regis University College for Professional Studies, *Asst. Professor*, 1/02 – 1/06, *Assoc. Professor*, 1/06 – 3/09 *Professor*, 3/09 – Present

Responsible for (i) teaching undergraduate Computer Science and graduate Software Engineering courses, (ii) developing online & classroom curriculum, (iii) managing Affiliate Faculty issues, and (iv) university committee service.

Creekpath Systems, *Principal Software Engineer*, 9/01 – 2/02

Design, scheduling, and implementation of an EJB intelligent workflow application that provides advice on configuring and maintaining large storage area networks

Athene Software, Senior Software Engineer, 12/99 – 8/01

Design and implementation of a Web-based multi-tier (HTML, Javascript, EJB, SQL) intelligent customer retention application using workflow technology

U S WEST Information Technologies, *Senior Engineer/ Technical Lead*, 2/96 - 12/99 Responsible for addressing all phases of software development including the management of junior developers for multi-tiered Web applications that included: ecommerce ordering, service order entry, questionnaire authoring and execution, rule-based constraint authoring and service order execution; rule-based consultative sales

U S WEST Advanced Technologies, *Member Technical Staff*, 11/86-2/96

Design and implementation of applied Artificial Intelligence research systems including: a dialogue-based Intelligent Tutoring System for training customer sales representatives, an e-commerce ordering, a distributed agent architecture, a knowledge-based indexing system for categorizing information services

University of Colorado at Boulder Continuing Education, *Lecturer*, 9/89-9/90 Responsible for teaching an Introduction to Artificial Intelligence course

AT&T Bell Laboratories, Member Technical Staff, 5/84 - 11/86

Design and prototype Artificial Intelligence research applications including several knowledge-based 'expert system' infrastructures to support internal clients.

Rutgers University, *Teaching Assistant*, 9/83 – 5/84

Taught recitation sections of Introduction to Computer Science for Non-Majors

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Positions

Tutorial Chair, 1988 Rocky Mountain Conference on Artificial Intelligence. Treasurer, Rocky Mountain Society for Artificial Intelligence, 1988-1990.

University Service (university level only)

Chair, Sponsored Projects Academic Research Council, 2006-2012

Member, Sponsored Projects Academic Research Council, 2002-2005

Member, Internal Review Board, 2008-present

Member, Faculty Development Committee, 2007-2008

Member, Higher Learning Commission Instructional Self Study, January-July, 2007.

Dissertation

Blumenthal, R. L.(1998). Supporting Unstructured Activities with a Meta-Contextual Protocol in Situation-Based Workflow. Unpublished doctoral dissertation, University of Colorado, Boulder.

Reviewed Publications

- Blumenthal, R. & Blumenthal, J.E. (2010). Using dialogue contexts to support the tutoring of ethics. *Proceedings of Artificial Intelligence and Applications AIA* 2010, Innsbruck, Austria, 271-278,
- Blumenthal, R. (2009). The effect of semistructured design rationale messages on Structuring collaborative problem-solving in an online forum. *Journal of Information Technology Impact*, 9(1), 1-24.
- Blumenthal, R. & Karamouzis, S. (2008). A behavioral model for tutoring ill-defined design tasks with multiple dialogue agents. *Proceedings of the 11th IASTED International Conference: Computers and Advanced Technology in Education*, Crete, Greece, 256-261.
- Sparks R., Dooley S., Meiskey L., & Blumenthal, R., (1999). The LEAP Authoring Tool: supporting complex courseware authoring through reuse, rapid prototyping, and interactive visualizations. *International Journal of Artificial Intelligence Education*, 10, 75-97.
- Blumenthal, R., & Nutt, G. (1995). Supporting unstructured workflow activities in the Bramble ICN system. In N. Comstock & C. Ellis (Eds.), *Proceedings of conference on Organization computing systems* (pp. 130-137). Milpitas, CA.
- Laufmann, S., Blumenthal, R., Thompson, L., & Bowen, B. (1991). Direct end-user access to remote information, In F. Lochovsky (Ed.), *Proceedings of the conference on Organizational computing systems* (16-28). Atlanta, Georgia.
- Blumenthal, R. (1990). Artificial intelligence in telecommunications. In J.J. Richardson & M.J. DeFries (Eds.), *Intelligent systems in business: integrate the technology* (pp. 201-217). Norwood, NJ: Ablex.

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- Blumenthal, R., Laufmann, S., & Freeman, E., (1990). OOOFFs: A metamorphosis from objects to knowledge-based agents. In *Proceedings of the Bellcore Object Oriented Systems and Technology (BOOST) Conference* (pp. 157-166). New Brunswick, NJ.
- Joseph, R., Ensor J. R., Dickinson, A., & Blumenthal, R. (1989). Describe An explanation facility for an object-based expert system. In *Proceedings*.
- Blumenthal, R. (1988). Rule inheritance in a frame-based paradigm. In M. Trivedi (Ed.), *Proceedings of Applications of Artificial Intelligence IV* (pp. 607-613). Orlando, FL.
- Ensor, J.R., & Blumenthal, R. (1987). Custom: an expert system editor. In *Proceedings of the 1987 Rocky Mountain Conference on Artificial Intelligence* (279-288). Boulder, CO.

Reviewed Workshop Publications

- Laufmann, S. & Blumenthal, R. (1988). GROMS: a system for modeling network structures. In *Proceedings IEEE '88 Globecom Workshop in the Application of Network Technology*.
- Mahling, D., Woo, C., Blumenthal, R., Schlickter, H., & Horstman, T. (1995). Workflow = OIS? A report of a workshop at the CSCW '94 conference, *SCM SIGIOS Bulletin*, *16*1, 59-64.
- Dooley, S., Meiskey, L., Blumenthal, R., & Sparks, R. (1995). Developing reusable intelligent tutoring system shells. In *Proceedings of the AIED-95 Workshop for Authoring Shells for Intelligent Tutoring Systems*. Washington, DC.
- Cox, L.A., & R. Blumenthal, (1987). "KRIMB: An intelligent knowledge acquisition and representation program for interactive model building. In T. Addis et al.(Eds.), *Proceedings of the First European Workshop on Knowledge Acquisition for Knowledge-Based Systems*. Reading, England.
- Cox, L.A., Jr. & Blumenthal, R. (1987). Dynamic planning under uncertainty using automated model construction and risk analysis. In *Proceedings of the 1987 Workshop on Simulation and Artificial Intelligence*. Seattle, WA.

Selected Technical Reports

- Ensor, J.R., Gabbe, J., & Blumenthal, R. (1984). *Taxpert a framework for exploring interactions among experts*. AT&T Bell Laboratories Technical Memorandum 11354-841029-04TM. Homdel, NJ.
- Blumenthal, R. & Laufmann, S. (1989). *Motivation-based default reasoning*. U S West Advanced Technologies, Technical Report. Boulder, CO.

Online Course Development (Regis University: classroom & online)

CS361: Control Structures

CS375: Computational Theory

CS390: Principles of Programming languages

CS432: Modern Software Engineering (OOAD)

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CS434: Java Programming

CS459: Groupware and Workflow,

CS483: Enterprise & Web Applications: J2EE

CS493: Senior Capstone

MS621: Artificial Intelligence

Teaching (Regis University: classroom & online)

CS361: Control Structures

CS362: Data Structures

CS375: Computational Theory

CS390: Principles of Programming Languages CS432: Modern Software Engineering (OOAD)

CS434: Java Programming

CS444: Software Engineering

CS472: Artificial Intelligence

CS483: Enterprise & Web Applications: J2EE.

Miscellaneous Community Service

Elementary school Science Fair judge, 1993-2010

Elementary school visiting scientist, 1994-2010

Youth basketball coach, 1996-1997, 2007-2009

Odyssey of the Mind coach, 1991-1998

Food bank volunteer, Habitat for Humanity volunteer, Special Olympics volunteer