Carolina Ruiz

Résumé

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Department of Computer Science
209A MIB
University of Pittsburgh
Pittsburgh, PA 15260 U. S. A.

Phone: (412) 624-9186
Fax: (412) 624-9189
e-mail: ruiz@cs.wpi.edu, ruiz@cs.pitt.edu
URL=http://www.cs.umd.edu/~cruizc/

Education

Ph.D. in Computer Science. 1996
University of Maryland at College Park.

MS in Computer Science. 1990
University of Los Andes. Bogotá, Colombia.

BS in Mathematics. 1989
University of Los Andes. Bogotá, Colombia.

BS (5 year degree) in Computer Science. 1988
University of Los Andes. Bogotá, Colombia.

Current Positions

Assistant Professor. Since 1996
Department of Computer Science.
Worcester Polytechnic Institute.
Worcester, MA.

Visiting Assistant Professor. 1996-1997
Department of Computer Science.
University of Pittsburgh.
Pittssburgh, PA.

Research Interests

- applications of mathematical logic to knowledge representation and reasoning
- deductive databases
- logic programming
- computational complexity
- non-monotonic reasoning
- intelligent agents
- machine learning
- non-classical logics
- automated theorem proving

Publications

- **Book Chapters**

[1] C. Ruiz and J. Minker. Computing stable and partial stable models of extended disjunctive logic programs. In J. Dix, L.M. Pereira, and T.C. Przymusinski, editors, *Nonmonotonic Extensions of Logic Programming*, pages 205–229. Lecture Notes in Computer Science 927. Springer-Verlag, 1995.

- **Research Articles in Journals**

[1] J. Minker and C. Ruiz. Semantics for disjunctive logic programs with explicit and default negation. *Fundamenta Informaticae*, 20(3/4):145–192, 1994. Anniversary Issue edited by H. Rasiowa.

[2] D. Seipel, J. Minker, and C. Ruiz. Model generation and state generation for disjunctive logic programs. *Journal of Logic Programming.* To appear.

[3] C. Ruiz and J. Minker. Combining closed world assumptions with stable negation. *Fundamenta Informaticae*, 1996. To appear.

[4] J. Minker and C. Ruiz. Logic knowledge bases with two default rules. *Submitted for publication to Annals of Mathematics and Artificial Intelligence*, 1996.

- **Research Articles in Conference Proceedings**

[1] J. Minker and C. Ruiz. On extended disjunctive logic programs. In J. Komorowski and Z.W. Raś, editors, *Proceedings of the Seventh International Symposium on Methodologies for Intelligent Systems, ISMIS'93*, pages 1–18. Lecture Notes in AI. Springer-Verlag, June 1993. (Invited Paper).

[2] J. Minker and C. Ruiz. Mixing a default rule with stable negation. In *Proceedings of the Fourth International Symposium on Artificial Intelligence and Mathematics*, pages 122–125, Jan. 1996.

- **Theses**

[1] C. Ruiz. *Semantics of Knowledge Based Systems with Multiple Forms of Negation.* PhD thesis, Department of Computer Science. University of Maryland., College Park, MD 20742 USA, Aug. 1996.

[2] C. Ruiz. Manta 2: An abstract data types manager. Master's thesis, Department of Computer Science. University of Los Andes. Bogotá, Colombia, 1990. (In Spanish).

[3] C. Ruiz. Automata topoi. BS Thesis. Department of Mathematics. University of Los Andes. Bogotá, Colombia, 1989. (In Spanish).

[4] C. Ruiz. An implementation of the Boyer and Moore theorem prover. BS Thesis. Department of Computer Science. University of Los Andes. Bogotá, Colombia, 1988. (In Spanish).

- **Technical Reports**

[1] J. Minker and C. Ruiz. Semantics for disjunctive logic programs with explicit and default negation. Technical Report CS-TR-3160 UMIACS-TR-93-107, Dept. of Computer Science and Institute for Advanced Computer Studies. University of Maryland, College Park, MD 20742. USA, 1993.

[2] C. Ruiz and J. Minker. Computing stable and partial stable models of extended disjunctive logic programs. Technical Report CS-TR-3458 UMIACS-TR-95-49, Dept. of Computer Science and Institute for Advanced Computer Studies. University of Maryland, College Park, MD 20742. USA, 1995.

[3] D. Seipel, J. Minker, and C. Ruiz. Model generation and state generation for disjunctive logic programs. Technical Report CS-TR-3546 UMIACS-TR-95-99, Dept. of Computer Science and Institute for Advanced Computer Studies. University of Maryland, College Park, MD 20742. USA, 1995.

Teaching Experience

- **Lecturer** 1995–1996

  Department of Computer Science. University of Maryland at College Park.

  - lectured in the graduate course on artificial intelligence.
  - lectured in the advanced undergraduate/graduate course on database design.

- **Graduate Teaching Assistant** 1990–1992

  Department of Mathematics. University of Maryland at College Park.

  - taught an introductory course on probability,
  - conducted discussion sessions for freshman calculus,
  - graded a course on computational methods for scientists and engineers.

- **Instructor** 1989–1990

  Department of Computer Science. University of Los Andes. Bogotá, Colombia.

  - taught an introductory course on formal methods in computer science,
  - taught a data structures course,
  - taught a course on the design of programs using structured programming and data abstraction.

- **Teaching Apprentice** 1988–1989

  Department of Mathematics. University of Los Andes. Bogotá, Colombia.

  - taught a course on algebra and trigonometry for freshmen.

Professional Activities

- **Member of**
  - The Association for Computing Machinery (ACM).
  - The ACM Special Interest Group on Artificial Intelligence (SIGART).
  - The Association for Logic Programming.
- **Referee for Journal Papers**
  - Annals of Mathematics and Artificial Intelligence.
  - Journal of Logic Programming.
  - Data & Knowledge Engineering Journal.
- **Referee for Conference Papers**
  - Non-monotonic Extensions of Logic Programming (NMELP'96) at JICSLP. Bonn, Germany. 1996.
  - International Joint Conference on Artificial Intelligence (IJCAI'95). Montréal, Canada. 1995.
  - Third International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR'95). Lexington, KY. USA. 1995.
  - International Conference on Tools with AI (ICTAI'95). 1995.
  - Fourth International Conference on Logic Programming and Automated Reasoning (LPAR'94). 1994.
  - Third International Conference on Logic Programming and Automated Reasoning (LPAR'93). 1993.
  - Joint International Conference and Symposium on Logic Programming (JICSLP'92). Washington, DC. USA. 1992.
- **Presenter of Refereed Articles in Conferences/Symposia**
  - "Mixing a Default Rule with Stable Negation". Fourth International Symposium on Artificial Intelligence and Mathematics, Fort Lauderdale, FL. USA. 1996
- **Participant in Conferences/Symposia**
  - Fifth International Conference on Artificial Intelligence and Law (ICAIL-95) College Park, MD. USA. 1995.
  - International Logic Programming Symposium (ILPS'94). Ithaca, NY. USA. 1994.
  - Joint International Conference and Symposium on Logic Programming (JICSLP'92). Washington, DC. USA. 1992.

Honors, Awards and Service

- Certificate of Merit, for serving as a graduate student mentor in the 1995 Summer Research Program. Presented by The Graduate School. Office of Minority Education. University of Maryland at College Park, 1995.
- Student Organizer, University of Maryland Institute for Advanced Computer Studies Lecture Series on Logic and Artificial Intelligence. 1993-1995.

Computer Skills

- **Languages:**

  Experienced with C, Prolog, Lisp, Latex and Latex2e, HTML, Pascal and Cobol.
- **Hardware/OS:**

  Experienced in UNIX. Have worked with SPARCstation/UNIX, SUN/UNIX 4.2, Micro-VAX II/ULTRIX and IBM PC's/MS-DOS.

Languages

- English and Spanish.