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## Professional Experience:

- May 2003–present. *Associate Research Professor, Center for Automated Learning and Discovery, Carnegie-Mellon University, Pittsburgh, PA.*
- July 2002–May 2003. *Visiting Associate Professor, Center for Automated Learning and Discovery, Carnegie-Mellon University, Pittsburgh, PA.* Conducted joint research with Steve Fienberg (Statistics), John Lafferty (Computer Science), Tom Mitchell (CALD), and Robert Murphy (Biology).
- April 2000–May, 2002. *Distinguished Research Scientist, Whizbang Labs, Pittsburgh, PA.* Conducted and supervised research and development for an information extraction company.
- November 2000–present. *Adjunct Faculty, Center for Automated Learning and Discovery, Carnegie Mellon School of Computer Science.*
- July 1999–April 2000. *Technology Consultant, AT&T Labs-Research, Shannon Laboratories, Florham Park NJ.* Senior research scientist in the Machine Learning and Information Retrieval Research Department.
- February 1996–July 1999. *Principle Research Staff Member, AT&T Labs-Research, Shannon Laboratories, Florham Park NJ.* Research scientist in the Machine Learning and Information Retrieval Research Department.
- September 1990–February 1996. *Member Technical Staff, AT&T Bell Laboratories, Murray Hill NJ.* Research scientist in the Artificial Intelligence Research Department and (later) in the Information Extraction Research Department.
- September 1994–October 1994. *Visiting Senior Research Associate, Basser Department of Computer Science, University of Sydney, Sydney, Australia.* Conducted research in the research group headed by Dr. J. R. Quinlan.
- Summer 1988. *Summer Intern, Bell Communications Research, Piscataway NJ.* Integration of natural-language front end to an advanced planning system.
- Summer 1987. *Research Assistant, Rutgers University Computer Science Department, New Brunswick, NJ.* Extension of the learning subsystem of a knowledge-based expert system for VLSI circuit design.
- November 1985–August 1986. *Member Technical Staff, Computer Science Corporation, under contract to the Space Telescope Science Institute, Baltimore MD.* Design and implementation of a natural language query system as part of a decision support system for selecting observations to be run on the Hubble Space Telescope.
- June 1984–September 1985. *Computer Aided Design R&D Specialist, General Electric Microelectronics Center, Research Triangle Park, NC.* Project leader for an expert system project on optimization of combinational logic.

## Education:

**Ph.D. in Computer Science.** Rutgers University, New Brunswick, New Jersey. August 1990. 4.0/4.0 average. Doctoral thesis, *Explanation Based Generalization as an Abstraction Mechanism for Concept Learning*, under the direction of Dr. Alex Borgida. AT&T Bell Laboratories Fellowship, September 1989—August 1990; Marion Johnson Fellowship, September 1986—June 1989.

**M.S. in Computer Science.** Rutgers University, New Brunswick, New Jersey. May 1988. 4.0/4.0 average.

**B.S. in Computer Science.** Duke University, Durham, North Carolina. May 1984. Second major in mathematics. 3.9/4.0 average. Senior Honor's thesis under the direction of Dr. Allen Biermann. Graduation Summa Cum Laude, May 1984;

## Professional Service:

- November 2001—present. Member of the Governing Board of the International Machine Learning Society. (The governing board is a group of fifteen whose principle mandate is to administer the International Machine Learning Conference. The members were chosen by an open election among all attendees of the last three conferences.)
- May 2002—present. Member of a National Research Council Subcommittee for the review of the NASA's Computing, Information, and Communications Technology (CICT) Program.
- September 2001—present. Action Editor for *The Journal of Machine Learning Research*.
- May 2000—September 2001. Member of the editorial board for the *Journal of Machine Learning Research*.
- January 1997—September 2001. Action Editor for the journal *Machine Learning*.
- January 1995—December 1997. Associate Editor for the *Journal of Artificial Intelligence Research*.
- March 1998. With Jaime Carbonell and Yiming Yang (of CMU), editor of special issue of the journal *Machine Learning* on the topic "machine learning and information retrieval".
- January 1998—present. Member of the advisory board for the *Journal of Artificial Intelligence Research*.
- September 1997—present. Member of the editorial board for *Applied Intelligence*.
- Co-chair of the 1994 International Machine Learning Conference.
- Member of advisory committees for ML-98, ML-97, ML-96, ML-95.
- Area chair for ML-2000, SIGIR-2001, and SIGIR-2002.
- Program committee member for KDD-2003, SIGMOD-2003, WWW-2003, NIPS-2002, ICML-2002, ICML-2001, SIGIR-2001, WWW-2000, ILP-2000, SIGIR-99, WWW-99, ILP-99, COLT-98, ML-97, ILP-97, AAAI-96, ALT-96, ILP-95, ILP-94, AAAI-93, and ML-93, and various specialized workshops.
- Member of organizing committee for AAAI-92 workshop on "Constraining Learning Using Prior Knowledge".
- Reviewer for numerous journals including *Artificial Intelligence*, *The Journal of Logic Programming*, *Information Processing Letters*, and *Theoretical Computer Science*.

## Teaching and Supervisory Experience:

- Spring 2002. *Center for Automated Learning and Discovery, Carnegie-Mellon University, Pittsburgh PA*. With T. Mitchell, taught a graduate seminar in knowledge discovery from data.
- Fall 2000. *Computer Science Department, Carnegie-Mellon University, Pittsburgh PA*. With J. Baxter, A. McCallum, T. Mitchell, F. Pereira, taught a graduate seminar in text mining and information extraction.
- September 1998—April 2000. Member of the AT&T Labs Fellowship Selection Committee.
- Fall 1997. *Computer Science Department, Rutgers University, New Brunswick, NJ*. With Y. Freund and R. Schapire, taught a graduate seminar in machine learning.
- Spring 1996. *Computer Science Department, Columbia University, New York, NY*. Taught a course in machine learning.
- Committee member for four Ph.D theses: Chunki Basu (Rutgers), Daniel Kudenko (Rutgers), John Zelle (University of Texas at Austin), and Peter Whigham (Australian National University).

## Invited Talks and Seminars:

- October 2002, invited talk, “Exploiting Document Structure in Information Extraction and Document Classification”, McKay Distinguished Lecture, University of California, Berkeley.
- October 2001, invited talk, “Issues in Extracting Information from the Web”, at the 7th International Workshop on Parsing Technologies, Sponsored by ACL/SIGPARSE, Beijing, China.
- December 2000, invited talk, “Learning Using the Web as Background Knowledge”, at the Eleventh International Conference on Algorithmic Learning Theory, Sydney, Australia.
- June 1999, keynote address, “What can we learn from the Web?” at the 16th International Conference on Machine Learning, Bled, Slovenia.
- March 1996, invited talk, “What the Well-Informed IR Researcher Should Know About Machine Learning”, at the 1996 AAAI Spring Symposium on Machine Learning and Information Access, Palo Alto, CA.
- September 1995, invited talk, “Learning to Classify English Text with ILP Methods”, at the Fifth International Workshop on Inductive Logic Programming, Leuven, Belgium.

## Patents:

- *Method and apparatus for extracting data from data sources on a network*. Patent #6,516,308.
- *A system and method for accessing heterogeneous databases*. Patent #6,295,533.
- *A system and method for finding information in a distributed information system using query learning and meta search*. Patent # 5,347,623.
- *Rule induction on large noisy data sets*. Patent # 5,719,692.
- *Software discovery system*. Patent # 5,642,472.
- *Biased learning system*. Patents # 5,481,650 and # 5,627,945.

## Journal Publications:

- submitted** S. Zelikovitz, H. Hirsh, W. Cohen, “Using and Extending WHIRL Queries for Text Classification”, submitted for journal publication.
- submitted** W. Cohen, “Learning and Discovering Structure in Web Pages”, submitted for journal publication.
- in press** M. Bilenko, R. Mooney, W. Cohen, P. Ravikumar, S. Fienberg “Adaptive Name-Matching in Information Integration”, *IEEE Intelligent Systems*, in press.
- 2001** C. Basu, H. Hirsh, W. Cohen, C. Neville-Manning, “Technical Paper Recommendation: A Study in Combining Multiple Information Source”, in *The Journal of Artificial Intelligence Research* 14, pp 231-252.
- 2000** W. Cohen, “Data Integration using Similarity Joins and a Word-based Information Representation Language”, in *ACM Transactions on Information Systems*, 18(3), July 2000, pp 288-321.
- 2000** W. Cohen and W. Fan, “Web-collaborative filtering: recommending music by crawling the Web”, in *Computer Networks*, 33, pp 685–698. A version of this paper also appeared in the proceedings of the *Ninth International World Wide Web Conference (WWW-2000)*.
- 2000** W. Cohen, “WHIRL: A Word-Based Information Representation Language”, *Artificial Intelligence*, 118, pp 163–196.
- 2000** W. Cohen, P. Devanbu, “Automatically Exploring Hypotheses about Fault Prediction: a Comparative Study of Inductive Logic Programming Methods”, *International Journal of Software Engineering and Knowledge Engineering*, 9(5), pp 519–546.
- 1999** W. Cohen, Y. Singer, “Context-sensitive learning methods for text categorization”, in *ACM Transactions on Information Systems*, 17(2), Apr 1999, pages 171-173.
- 1999** W. Cohen, Y. Singer, R. Schapire, “Learning to Order Things”, in *Journal of Artificial Intelligence Research*, 10, 1999, pp 243-270.
- 1999** W. Cohen, W. Fan, “Learning page-independent heuristics for extracting data from Web pages”, *International Journal of Computer and Telecommunications Networking*, 31, pp 1641–1652. Versions of this paper also appeared in the proceedings of the *Eighth International World Wide Web Conference (WWW-99)* and the *1999 AAAI Spring Symposium Workshop on Intelligent Agents in Cyberspace*.
- 1999** W. Cohen, “Reasoning about Textual Similarity in Information Access”, *Autonomous Agents and Multi-Agent Systems*, 2, 1999, pp 65–86.
- 1998** W. Cohen, “The WHIRL Approach to Information Integration”, *IEEE Intelligent Systems*, Sept/Oct 1998, pp 20–23. (In the *Trends and Controversies* feature on information integration.)
- 1998** W. Cohen, “Hardness Results for Learning First-Order Representations and Programming by Demonstration”, *Machine Learning*, 30(1), pp 57–88.
- 1996** W. Cohen, “Adaptive Mapping and Navigation by Teams of Simple Robots”, *Robotics and Autonomous Systems*, 18, pp 411–434.
- 1996** W. Cohen, “Pac-Learning Non-Recursive Prolog Clauses”, *Artificial Intelligence*, 79(1), pp 1–38.
- 1995** W. Cohen and D. Page, “Polynomial Learnability and Inductive Logic Programming: Methods and Results”, *New Generation Computing*, 13(3).

- 1995** W. Cohen, “Pac-Learning Recursive Logic Programs: Efficient Algorithms”, *Journal of Artificial Intelligence Research*, Vol 2, pp 500–539.
- 1995** W. Cohen, “Pac-Learning Recursive Logic Programs: Negative Results”, *Journal of Artificial Intelligence Research*. Vol 2, pp 541–573.
- 1995** W. Cohen, “Inductive Specification Recovery: Understanding Software by Learning from Example Behaviors”, *Automated Software Engineering*, 2(2).
- 1994** W. Cohen, H. Hirsh, “Learnability of Description Logics with Equality Constraints”, *Machine Learning*, 17(2/3).
- 1994** W. Cohen, “Grammatically Biased Learning: Learning Logic Programs Using an Explicit Antecedent Description Language”, *Artificial Intelligence*, Vol 68, pp 303-366.
- 1994** W. Cohen, “Incremental Abductive EBL”, *Machine Learning*, 15(1).
- 1994** L. T. McCarty, W. Cohen, “The Case for Explicit Exceptions”, in *Methods of Logic in Computer Science*, 1(1).
- 1992** W. Cohen, “Abductive Explanation-Based Learning: A Solution to the Multiple Inconsistent Explanation Problem in Explanation-Based Learning”, *Machine Learning*, 8(2).
- 1992** W. Cohen, “Using Distribution-Free Learning Theory to Analyze Solution Path Caching Mechanisms”, *Computational Intelligence*, 8(2).
- 1986** K. Bartlett, W. Cohen, A. De Geus, G. Hachtel, “Synthesis and Optimization of Multi-level Logic Under Timing Constraints”, *IEEE Transactions on Computer-Aided Design*, October 1985.
- 1985** A. De Geus, W. Cohen, “Optimization of Combinational Logic Using a Rule-Based Expert System”, *IEEE Design and Test of Computers*, August 1985.

#### **Book Chapters:**

- 2003** W. Cohen, M. Hurst, L. S. Jensen, “A Flexible Learning System for Wrapping Tables and Lists in HTML Documents”, in “Web Document Analysis: Challenges and Opportunities”, ed. Antonacopoulos & Hu, Word Scientific Publishing.
- 1996** W. Cohen, “Learning to Classify English Text with ILP Methods”, in “Advances in ILP”, ed. L. de Raedt, IOS Press.
- 1994** W. Cohen, R. Greiner, D. Schuurmans, “Probabilistic Hill-Climbing”, in “Computational learning theory and natural learning systems (Volume II)”, MIT Press.
- 1994** H. Hirsh, W. Cohen, “Learning from Data with Bounded Inconsistency: Theoretical and Experimental Results”, in “Computational learning theory and natural learning systems (Volume I)”, MIT Press.

#### **Rigorously Refereed Conference Publications:**

- 2003** C. Zhai, W. Cohen, J. Lafferty, “Beyond Independent Topical Relevance: Methods and Evaluation Metrics for Subtopic Retrieval”, in *Proceedings of the 26th Annual International ACM SIGIR Conference (SIGIR-2003)*.

- 2003** W. Cohen, R. Wang, R. F. Murphey, “Understanding Captions in Biomedical Publications” in *Proceedings of the Ninth International Conference on Knowledge Discovery and Data Mining (KDD-2003)*.
- 2003** W. Cohen, “Infrastructure Components for Large-Scale Information Extraction Systems”, in *Proceedings of the Fifteenth Innovative Applications of Artificial Intelligence Conference (IAAI-03)*.
- 2002** W. Cohen, “Improving A Page Classifier with Anchor Extraction and Link Analysis”, in *Neural Information Processing (NIPS-2002)*.
- 2002** W. Cohen, J. Richman, “Learning to Match and Cluster Large High-Dimensional Data Sets For Data Integration”, in *Proceedings of the Eighth International Conference on Knowledge Discovery and Data Mining (KDD-2002)*.
- 2002** W. Cohen, M. Hurst and L. Jensen, “A Flexible Learning System for Wrapping Tables and Lists in HTML Documents”, in *Proceedings of the Eleventh International World Wide Conference (WWW-2002)*.
- 2000** W. Cohen, “Automatically extracting features for concept learning from the Web”, in *Proceedings of the Seventeenth International Machine Learning Conference (ICML-2000)*.
- 2000** W. Cohen, H. Kautz, D. McAllester “Hardening Soft Information Sources” in *Proceedings of the Sixth International Conference on Knowledge Discovery and Data Mining (KDD-2000)*.
- 1999** W. Cohen and Y. Singer, “A Simple, Fast, and Effective Rule Learner”, in *Proceedings, Seventeenth National Conference on Artificial Intelligence (AAAI-99)*.
- 1999** W. Cohen, “Recognizing Structure in Web Pages using Similarity Queries”, in *Proceedings, Seventeenth National Conference on Artificial Intelligence (AAAI-99)*.
- 1998** W. Cohen, “Joins that Generalize: Text Classification Using a Similarity-Based Database”, in *Proceedings of the Fourth International Conference on Knowledge Discovery and Data Mining (KDD-98)*.
- 1998** C. Basu and H. Hirsh and W. Cohen, “Recommendation as Classification: Combining Social and Content-Based Information in Recommendation”, in *Proceedings, Sixteenth National Conference on Artificial Intelligence (AAAI-98)*.
- 1998** W. Cohen, “Integration of Heterogeneous Databases Without Common Domains Using Queries Based on Textual Similarity”, in *Proceedings of ACM SIGMOD International Conference on Management of Data (SIGMOD-98)*.
- 1998** W. Cohen, “A Web-based Information System that Reasons with Structured Collections of Text”, in *Autonomous Agents 1998*.
- 1997** W. Cohen and R. Schapire and Y. Singer, “Learning to Order Things” in *Proceedings of the 1997 Conference on Neural Information Processing Systems (NIPS-97)*.
- 1997** W. Cohen and D. Kudenko, “Transferring and Retraining Learned Information Filters”, in *Proceedings, Fifteenth National Conference on Artificial Intelligence (AAAI-97)*.
- 1997** W. Cohen and P. Devanbu, “A Comparative Study of Inductive Logic Programming Methods for Software Fault Prediction”, *Machine Learning, Proceedings of the Fourteenth International Conference (ML-96)*.

- 1996** W. Cohen and Y. Singer, “Context-sensitive Learning Methods for Text Categorization”, in *Nineteenth Annual International ACM SIGIR Conference on Research and Development in Information Retrieval* (SIGIR-96).
- 1996** W. Cohen, “Learning Trees and Rules with Set-Valued Attributes”, in *Proceedings, Fourteenth National Conference on Artificial Intelligence* (AAAI-96).
- 1996** W. Cohen, “The Dual DFA Learning Problem: Hardness Results for Programming by Demonstration and Learning First-Order Representations”, in *Proceedings of the Ninth Annual ACM Conference on Computational Learning Theory* (COLT-96).
- 1995** W. Cohen, “Fast Effective Rule Induction”, in *Machine Learning, Proceedings of the Twelfth International Conference* (ML-95).
- 1995** W. Cohen, “Text Categorization and Relational Learning”, in *Machine Learning, Proceedings of the Twelfth International Conference* (ML-95).
- 1994** W. Cohen, “Pac-learning Nondeterminate Clauses”, in *Proceedings, Twelfth National Conference on Artificial Intelligence* (AAAI-94).
- 1994** W. Cohen, “Recovering Software Specifications with Inductive Logic Programming”, in *Proceedings, Twelfth National Conference on Artificial Intelligence* (AAAI-94).
- 1994** W. Cohen and H. Hirsh, “Learning the CLASSIC Description Logic: Theoretical and Experimental Results”, in *Principles of Knowledge Representation and Reasoning: Proceedings of the Fourth International Conference* (KR-94).
- 1993** W. Cohen, “Cryptographic Limitations on Learning One-Clause Logic Programs”, in *Proceedings of the Eleventh National Conference on Artificial Intelligence* (AAAI-93).
- This paper was also one of ten papers nominated for the Best Written Paper Award.
- 1993** W. Cohen, “Pac-Learning a Restricted Class of Recursive Logic Programs”, in *Proceedings of the Eleventh National Conference on Artificial Intelligence* (AAAI-93).
- 1993** W. Cohen, “Efficient Pruning Methods for Separate-and-Conquer Rule Learning Systems”, in *Proceedings of the 13th International Joint Conference on Artificial Intelligence* (IJCAI-93).
- 1992** W. Cohen, A. Borgida, H. Hirsh “Computing Least Common Subsumers in Description Logics”, in *Proceedings of the Tenth National Conference on Artificial Intelligence* (AAAI-92).
- 1992** W. Cohen, “Compiling Prior Knowledge Into An Explicit Bias”, in *Proceedings of the Eighth Annual Conference on Machine Learning* (ML-92).
- 1992** W. Cohen, H. Hirsh, “Learnability of Description Logics”, in *Proceedings of the Fourth Annual Workshop on Computational Learning Theory* (COLT-92).
- 1990** W. Cohen, “Using Distribution-Free Learning Theory to Analyze Chunking”, in *Proceedings of the Canadian Conference on Artificial Intelligence*.
- 1990** W. Cohen, “Learning Approximate Control Rules of High Utility”, in *Proceedings of the Seventh International Machine Learning Conference* (ML-90).
- 1990** W. Cohen, “An Analysis of Representation Shift in Concept Learning”, in *Proceedings of the Seventh International Machine Learning Conference* (ML-90).

- 1990** W. Cohen, “Learning from Textbook Knowledge: A Case Study”, in *Proceedings of the Eighth National Conference on Artificial Intelligence (AAAI-90)*.
- 1988** W. Cohen, “Generalization of Number and Learning from Multiple Examples in Explanation Based Learning”, in *Proceedings of the Fifth International Machine Learning Conference (ML-88)*.

#### Other Conference and Workshop Publications:

- 2003** W. Cohen, Z. Kou R. Murphy, “Extracting Information from Text and Images for Location Proteomics”, in *Proceedings of the 3rd Workshop on Data Mining in Bioinformatics, held in conjunction with 9th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD’2003)*
- 2003** W. Cohen, P. Ravikumar, S. Fienberg, “A Comparison of String Metrics for Matching Names and Records”, in *Proceedings of the Workshop on Data Cleaning and Object Consolidation, held in conjunction with 9th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD’2003)*.
- 2003** W. Cohen, P. Ravikumar, S. Fienberg, “A Comparison of String Distance Metrics for Name-Matching Tasks”, in *Proceedings of the 2003 Workshop on Information Integration on the Web (IIWeb-03), held in conjunction with the Eighteenth International Joint Conference On Artificial Intelligence (IJCAI-03)*.
- 2001** W. Cohen and J. Richman, “Learning to Match and Cluster Entity Names”, in *Proceedings of the ACM SIGIR-2001 Workshop on Mathematical/Formal Methods in Information Retrieval*.
- 2001** W. Cohen and L. Jensen, “A Structured Wrapper Induction System for Extracting Information from Semi-Structured Documents”, in *Proceedings of the IJCAI-2001 Workshop on Adaptive Text Extraction and Mining*.
- 2001** L. Jensen and W. Cohen, “Grouping Extracted Fields”, in *Proceedings of the IJCAI-2001 Workshop on Adaptive Text Extraction and Mining*.
- 2000** W. Cohen, “Learning Using the Web as Background Knowledge”, abstract of invited talk at the *Eleventh International Conference on Algorithmic Learning Theory*, Sydney, Australia.
- 1999** W. Cohen, “What Can We Learn from the Web?”, abstract of the keynote address at the *Sixteenth International Machine Learning Conference*, Bled, Slovenia.
- 1999** W. Cohen, “Some practical observations on integration of Web information”, in *the ACM Sigmod Workshop on the Web and Databases (WebDB’99)*.
- 1998** W. Cohen, “The WHIRL Approach to Integration: An Overview”, in the *AAAI-98 Workshop on AI and Information Integration*.  
This paper was the only submission to be selected for full plenary presentation.
- 1997** W. Cohen, “Knowledge Integration for Structured Information Sources Containing Text (Extended Abstract)”, in the *SIGIR-97 Workshop on Networked Information Retrieval*.
- 1996** W. Cohen and Y. Singer, “Learning to Query the Web”, in *Proceedings of the 1996 AAAI Workshop on Internet-based Information Systems*.
- 1996** W. Cohen, “Learning Rules that Classify E-mail”, in *Proceedings of the AAAI Spring Symposium on Machine Learning and Information Access*.



- 1993** W. Cohen, “A Review of ‘Creating a Memory of Causal Relationships’ by Michael Pazzani”, *Machine Learning*.
- 1993** P. Rosenbloom, H. Hirsh, W. Cohen, B. Smith, “Two frameworks for integrating knowledge in induction”, in *Proceedings of the Seventh Annual Workshop on Space Operations, Applications, and Research (SOAR '93)*
- 1993** W. Cohen, “Rapid Prototyping of ILP Systems Using Explicit Bias” in *Proceedings of the 1993 IJCAI Workshop on Inductive Logic Programming*.
- 1993** W. Cohen, “Learnability of Restricted Logic Programs”, in *Proceedings of the Third International Workshop on Inductive Logic Programming (ILP-93)*.
- 1992** W. Cohen, “Desiderata for Generalization-to-N Algorithms”, in *Analogical and Inductive Inference: Proceedings of International Workshop (AII-92)*.
- 1991** W. Cohen “The Generality of Overgenerality”, in *Proceedings of the Eighth International Machine Learning Workshop (ML-91)*.
- 1991** R. Greiner, W. Cohen “Probabilistic Hill-Climbing”, in *Proceedings of the 1991 Workshop on Computational Learning Theory and Natural Learning Systems (CLNL-91)*.
- 1990** W. Cohen, “Learning from Examples and an ‘Abductive Theory’”, in *Proceedings of the 1990 AAAI Spring Symposium on Abduction*.
- 1988** W. Cohen, J. Mostow, A. Borgida, “Generalizing Number in Explanation Based Learning”, *Proceedings of the 1988 AAAI Spring Symposium on Explanation-Based Learning*.
- 1987** T. Hornick, W. Cohen, G. Miller, “A Natural Language Query System for Hubble Space Telescope Proposal Selection”, in *Proceedings of the Goddard Conference on Space Applications of Artificial Intelligence and Robotics*.
- 1987** G. Miller, D. Rosenthal, W. Cohen, M. Johnston, “Expert Systems Tools for Hubble Space Telescope Scheduling”, in *Proceedings of the Goddard Conference on Space Applications of Artificial Intelligence and Robotics*.
- 1985** K. Bartlett, W. Cohen, A. De Geus, G. Hachtel, “Synthesis and Optimization of Multi-level Logic Under Timing Constraints”, in *Proceedings of the IEEE International Conference on Computer-Aided Design*.
- 1985** W. Cohen, K. Bartlett, A. De Geus, “Impact of Metarules in a Rule-Based Expert System for Gate Level Optimization”, in *Proceedings of the IEEE International Symposium on Circuits and Systems*.
- 1984** K. Garrison, D. Gregory, W. Cohen, A. De Geus, “Automatic Area and Performance Optimization of Combinatorial Logic”, in *Proceedings of the IEEE International Conference on Computer-Aided Design*.