CHRISTOPHER C. MCCONNELL

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EDUCATION:

9/88 - Present PhD. program in Computer Science at Carnegie Mellon University (CMU).

- Dissertation: Learning Context Sensitive Evaluation Functions for Search
  Committee: Dr. H. Berliner, Dr. M. Furst, Dr. T. Mitchell, Dr. E. Baum
  Expected completion: 6/1/96

9/81 - 6/85 A.B. degree in the Philosophy of Logic and Formal Systems from Stanford University.

EXPERIENCE:

6/91 - Present CMU. Thesis work on tuning evaluation functions for search. Research on selective and parallel search in computer chess. Participant in the last two world computer chess championships and several international tournaments as well.

9/91 - Present A Mixed Bag. Cofounder of company that develops medical products for continuous drip anesthesia.

9/89 - 6/91 CMU. Research on minimum description length learning. Developed the ILISP EMACS to LISP interface now used in research labs all over the world.

8/91 - 11/93 Thinking Machines. Consultant on effort to develop a parallel chess program for the CM-5.

6/89 - 9/89 Advanced Decision Systems (ADS), Mtn. View, CA. Designed and implemented a parallel version of the learning algorithm CART that is 150 times faster than the serial version. Implemented a parallel genetic algorithm for training neural networks. Both were done on a 16K Connection Machine.

9/88 - 6/89 CMU. Developed simulators for the simulation of neural networks and genetic algorithms. Used them in research on evolving artificial life.

8/85 - 7/88 ADS. Research in perceptual grouping, vision environments and a parallel system for the control and representation of knowledge in a complex domain.

3/84 - 6/85 AKG, Palo Alto, California. Designed and developed a nationwide computerized polling and data analysis system. The system includes a compiler and tools for creating programs that integrate computer text, graphics, video and music for opinion and marketing research.

9/84 - 6/85 Stanford University. Implemented a computer vision system to test a new theory of human color constancy.

9/79 - 3/84 Cyberia, Inc., Ames, Iowa. Started a retail computer store which evolved into a software development and marketing company, employing 20 people. Acted as a programmer, salesperson, and manager. Developed a computer network, graphics language compiler, programmer support package, and several business packages. Involved in the design, manufacture and sales of other business and game software.

4/79 - 9/79 Compas, Ames, Iowa. Design, layout, testing, manufacturing and software for a line of computer hardware.

PERSONAL INFORMATION:

Date of Birth: February 25, 1962

Place of Birth: Ames, IA.

Citzenship: U.S.

Outside interests: Doing and teaching racquetball, rowing, and latin dancing, playing classical guitar.

PUBLICATIONS

B* Probability Based Search. To be published in *Artificial Intelligence Journal* (With H. Berliner)

Minimal Model Complexity Search. *Proceedings of EPIA 95, Oct. 3-6, 1995*

Tuning Evaluation Functions for Search. *Proceedings of the Hong Kong Computer Strategy Game Programming Workshop*

*CART: A Parallel Implementation of CART on the CM-2. CMU-SCS-95-196

Standard Range Titration of Continuing Intravenous Anesthesia is a More Effective Method for Resident Teaching. Journal Clinical Monitoring. Feb. 1995 (With E. Teeple)

Standard Titration and Methodology for Continuous Infusions of Neuromuscular Blockers. Abstract *Journal Clinical Monitoring* Nov 1994 (With E. Teeple)

B* Probability Based Search. CMU-CS-94-168 June 27, 1994

Facilitated Intravenous Infusion Anesthesia Using a Computer to Vary Infusate Concentration to Standardize Delivery Rate, Computers in Anesthesia XIII, New Orleans, La. Oct. 22, 1992 (Published in *International Journal of Clinical Monitoring*) (With E. Teeple)

Image Understanding Environments, *Proceedings of the IEEE,* Vol. 76, No. 8, Aug. 1988. (With D. Lawton)

The Design and Implementation of the Fusion System: PENDRAGON, *AFCEA Intelligence Symposium,* Oct. 27-28, 1987. (With G. Courand and S. Souders)

Perceptual Organization Using Interestingness, *Proc. AAAI Spatial Reasoning Workshop*, Oct. 5-7, 1987. (With D. Lawton)

Constructs for Cooperative Image Understanding Environments, *Proc. DARPA IU Workshop*, Feb. 23-25, 1987. (With P. Nelson and D. Lawton)

Environmental Modeling for an Autonomous Land Vehicle, *Proc. DARPA IU Workshop*, Feb. 23-25, 1987. (With D. Lawton, T. Levitt, P. Nelson and J. Glicksman)

Terrain Models for an Autonomous Land Vehicle, *Proc. IEEE International Conference on Robotics and Automation,* Apr. 7-10, 1986. Reprinted in Readings in Computer Vision, M. A. Fischler and O. Firschein (ed.) Morgan Kaufmann, Los Altos, CA. 1987. (With D. Lawton, T. Levitt, P. Nelson and J. Glicksman)

Knowledge Based Vision Techniques: Terrain and Object Modeling Recognition, *Advanced Decision Systems 1987 Tech. Rep.* (With D. Lawton, T. Levitt, P. Nelson, M. Black, D. Edelson, K. Koitszch, J. Dye, T. Binford, D. Chelberg, D. Kriegman and L. Ponce)

Intelligence Data Analysis, *Advanced Decision Systems 1987 Tech. Rep.* (With G. Courand, S. Souders and J. Dye)

Knowledge Based Vision Techniques: Terrain and Object Modelling Recognition, *Advanced Decision Systems 1986 Tech. Rep.* (With D. Lawton, T. Levitt, J. Glicksman, T. Miltonberger, H. Muller, P. Nelson, and C. Neveu)