David E. Cardoze

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Objective

To obtain a full-time faculty position in the design and implementation of algorithms, specializing in the area of computational geometry and its applications.

Education

Georgia Institute of Technology, Atlanta, GA
Ph.D. Degree in Computer Science expected August 1999
Tentative thesis title: *Efficient algorithms for Geometric Pattern Matching*
Advisor: Leonard J. Schulman

B.S. Computer Science, June 1994
GPA: 4.0 / 4.0

Honors

E-Systems Scholarship Recipient, 1992
Outstanding Rising Senior from the College of Computing, 1993
The Four-Point Year Award, 1993
The Most Outstanding Junior Academic Award, 1993
The Most Outstanding Computer Science Major Award, 1994

Experience

Georgia Institute of Technology
Graduate Teaching Assistant, September 1997 - Present

Worked as teaching assistant in courses related automata theory and the design and analysis of algorithms, both at the graduate and undergraduate levels.

Xerox Palo Alto Research Center
Summer Intern, June 1997 - August 1997

Worked in the Document Image Decoding group of the Information Sciences and Technologies Lab (ISTL) in the development and implementation of algorithms for template adaptation. (Continuation as a non-fee consultant 9/97-present)

Georgia Institute of Technology
Graduate Teaching Assistant, October 1996 - June 1997

Worked as teaching assistant in courses related to the construction of mathematical proofs and the design and analysis of algorithms.

Xerox Palo Alto Research Center
Summer Intern, July 1996 - September 1996

Worked in the Document Image Decoding group of the Information Sciences and Technologies Lab (ISTL) in the development and implementation of algorithms for the decoding of multilevel document images.

Georgia Institute of Technology
Graduate Research Assistant, June 1994 - June 1996

Worked as the lead Graduate Research Assistant for the Mission Equipment Package group of the ASRT project. Worked in the design of the sensor package and the development of vision tracking and target designation algorithms.

Publications

Cardoze, D., Schulman L., "Pattern Matching for Spatial Point Sets", **Proc** 39^{th} **FOCS**, Palo Alto, CA, November 1998. pp. 156, 165.

Rosignac, J., Cardoze, D., "Matchmaker: Manifold BReps for non-manifold r-sets", to appear in **Proc Solid Modeling 99**.

Cardoze, D., Collins, T., Arkin, R.C., "Visual Tracking Technologies for an Autonomous Rotorcraft", to appear in **Image and Vision Computing Journal**.

Cardoze, D. and Arkin, R.C., 1995. "Development of Visual Tracking Algorithms for an Autonomous Helicopter", **Mobile Robots X**, Philadelphia, PA, 1995, pp. 145-156.

Collins, T., Cardoze, D., and Gerber, D., "Object-Oriented Development of an Integrated Processor System for an Unmanned Aerial Vehicle," **Proc. AUVS '95 Symposium**, Washington DC, July 1995.

Associations

Phi Kappa Phi
Golden Key
All-American Scholars

References

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