

Education

M.Sc. Computer Science, Colorado State University, 2009 (Expected)

B.Sc. Computer Science, Mesa State College, 2005, Magna Cum Laude

Master's Thesis

Visual Location Awareness

Advisor: Bruce A. Draper Colorado State University

Evaluation of a biomimetic computer vision system in the context of robot localization. Although much work has been done on adapting vision systems to robot localization, many authors do so using idiosyncratic approaches which hinder comparative evaluation of vision systems. The proposed evaluation method uses a common information retrieval metric and a hidden Markov model to provide a least common denominator solution to key localization tasks. Due to its simplicity, it allows easy comparison of vision systems for localization using ROCs on standard experiments.

Appointments

Software Developer Intern Summer 2008

Wall Street On Demand Boulder, CO

Development and testing of an artificial neural network based data feed analysis software. Wall Street On Demand is one of the largest data and visualization providers for financial markets.

Graduate Systems Assistant 2007–current

Colorado State University Fort Collins, CO

Support of Computer Science Department's network. Software installation and maintenance, administrative scripting, troubleshooting, backups, OS upgrades in a Linux, Solaris, Mac OS X, and Windows environment.

Teaching Assistant Fall 2006

Network and System Administration Colorado State University

Introduction to UNIX-based systems' administration including scripting, software installation, management of network and operating system services, policies for upgrades, security, backups. Explaining programming, systems, and networking concepts, suggesting possible lab exercises, writing instructions for lab exercises, grading assignments and quizzes.

Computer Programmer 2004–2005

Flow Data, Inc. Grand Junction, CO

Research and development of a vision-based pipeline inspection tool. Determining mechanical, electronic, hardware, and software requirements; software development, system assembly, and testing.