Greetings From the Chair

Dear Friends:

As the holiday season approaches, we would like to send you our warmest Holiday Greetings and share some news from your department.

In 2006 Professor Stephen B. Seidman, Dr. Vamsi Paruchuri, and Mr. Michael Nooner joined the department. Professor Seidman is an internationally recognized computer scientist. He is the new Dean of this college, and he has recently been named as the 2007 Vice-President for Educational Activities of the IEEE Computer Society. His leadership will help the department greatly. As a new tenure-track assistant professor, Dr. Vamsi Paruchuri brings significant expertise to the department. He has a solid record of research publications on wireless networks. Mr. Nooner, a recent UCA CS Master's graduate, works as an instructor and provides technical support to better serve our students and faculty.

International collaborations of the department in 2006 include a post-doctoral researcher Dr. Alexandre Goldzstejn from France and a senior visiting scientist Professor Shanying Xu from Chinese Academy of Sciences.

As you may know, UCA was ranked among the best universities in the south. Together with the entire university, this department has built up its reputation through pursuing excellence in teaching, research and professional services. Our high quality graduates are very much demanded by Acxiom, DataTronics, Dillard’s, Wal-Mart Information Systems, and other employers.

Please send us your success stories to share with others.

My best wishes for a great holiday season and a wonderful 2007 for you and your family!

Happy Holidays,

Chenyi Hu, Ph.D.
Professor and Chair

Student Research

Aaron Miller, presented his project, “A Study on Sorting Algorithms”, Student Research Seminar, 4/06, Faculty Mentor: C. Hu

Meaghan Dellar - received SURF Fellowship research award, $3900. Presented her project, “Task Scheduling on Flow Network with Temporal Uncertainty”, Student Research Seminar, 4/06, Faculty Mentor: C. Hu.

Nathan Hatchkiss & Jennifer Rullmann - Research project: “P3P and Mobile Privacy”, Faculty Mentor: C. Hu.

Jerod Shoat & Chris Shelton - Research Project, “Video compression and communication”, Faculty Mentor: Y. Sun

Scott Dancer, Kevin Griffin, Thomas Stamps - Research Project: “Parallel data access from large data set in Acxiom Data Grid”, Faculty Mentor: H. Wei

Mike Moncrief, Scott Dancer, Nathan Hatchkiss, & Dewan Rahman - Research Project, “Distributed Heterogeneous Robotic System Architecture”, Faculty Mentor: H. Wei


Graduate Student News

Our Masters program continues to grow. In Sp’06 we awarded three degrees. Five new graduate students have enrolled for the Fall’06 semester.

Some student highlights:

Michael Nooner, Travis Godfrey, and Michael Gill were awarded their masters in Sp’06.

Vineet Saini presented a paper at the ALAR Acxiom conference, sp’06.

Ping Hu, research project: “Fuzzy partial-order relations for intervals and interval weighted graphs” directed by C. Hu

Erich Peterson, awarded graduate assistantship, Fall ‘06

Chris Shelton, awarded graduate assistantship, Fall ‘06

Inside this issue:

New Faculty / CS News 2

Graduate Program 3

Grants & Publications 3

Conferences 4

Student News 4
Computer Science News

New Faculty: Dr. Vamsi Paruchuri

Ph.D. in Computer Science from the Louisiana State University, May 2006, joins this department as a tenure-track Assistant Professor, Fall 2006.

His research interests consist of several areas of wired and wireless networking that include broadcasting, routing, security, IP traceback, and reliability.

He has published over 20 papers in prominent journals and won Best Paper Award at IEEE international conference.

Student Club News and Activities

The purpose of the UCA Computer Science Club is to bring those interested in computers together in a constructive, fun, and friendly atmosphere.

This semester we have continued working on the club website. We started an email account just for computer science club, in which we email all club members and remind them before an event or meeting is to take place. On Halloween, we held a meeting trying to recruit new members to our club. We had pizza and cokes. It went over well we gained several new members. In November, we held club elections. We went to the ACM programming contest with two groups in which Team1 received four balloons, and Team2 received three balloons. Teams received a balloon when they correctly programmed a problem.

Team1 members were Aaron, Jared, and Thomas with Team2 members Coco, Kevin, and Nat.

We have planned to have a programming contest, LAN party, and fund raisers next semester.

News

The Department of Computer Science has recently formed a department fund at the UCA Foundation. For those who would like to make a tax deductible contribution you may contact us or contact the UCA Foundation directly. We appreciate your support for our future needs.

Axiom Corp. has committed to award the department $105,000.00 in the next three years for the continue improvement and enhancement of our educational programs.

We are currently receiving applications for our new advertised position. We hope to fill by the Fall ‘07 semester.

The department sponsored the Axiom Laboratory for Applied Research (ALAR) 2006 Conference on Applied Research in Information Technology at UCA on March 9, 2006. Dr. Hu served as a co-chair for the conference. He has also been an Associate Director of the Axiom Laboratory for Applied Research.

Michael Nooner, a recent CS Masters Graduate joined our staff of instructors Fall’06. He also serves as the departmental technician.

We coordinated ten departmental seminars with several guests this semester.

From October to December 2006, Prof. Shanying Xu from Chinese Academy of Sciences visited this department as a senior visiting scholar to conduct collaborative research.

From January to August, 2006, Dr. Alexandre Goldsztejn from France was a post-doctoral researcher at this department. He is now a visiting lecturer at the University of California at Irvine.
Computer Science News

Grants:

5. **Chenyi Hu**, “Parallel Reliable Global Optimization with Interval Arithmetic”, a continuation grant, NSF/CISE/CCR-0202042, $98,059.

Publications:

8. **Yu Sun**, Ishfaq Ahmad, Dongdong Li and Ya-Qin Zhang, “Region-Based Rate Control and Bit Allocation for Wireless Video Transmission,” IEEE Transactions on Multimedia, VOL. 8, No. 1, Feb. 2006, pp. 1 – 10
Attention Alumni

We would very much like to keep in contact with our departmental alumni. We have created a form that can be found on our webpage that you can fill out. Upon receiving your information, you will be added to our database of alumni. We aim to establish a community that can share resources and contact information.

Thank you

We’re on the web!
www.cs.uca.edu

Conferences


3. **Chenyi Hu**, The 2nd Int. Conf. on Fuzzy Sets and Soft Comp. in Economics and Finance, St. Petersburg, Russia, July, 2006


5. **Chenyi Hu**, Microsoft eScience Workshop, John Hopkins University, October, 2006


7. **Vamsi Paruchuri**, Arjan Durresi, ”Scalable Hierarchical Traceback,” accepted in the IEEE GLOBECOM 2006, to be held in San Francisco, CA, November 27 - December 1, 2006


Student News

**Alumni**

*Vineet Saini*, CS Applied Computing Prog, Resch Asst.
*Dewan Rahman*, CS Applied Computing Prog, Resch Asst.
*Pawel Opala*, employed by Acxiom
*Luke Stanton*, employed by Acxiom
*Wendy Jackson*, employed by Acxiom
*Thomas Hinz*, employed by Dillards

**Undergraduate**

*Wale Mohammed*, employed by Acxiom
*Bryce Ussery*, employed by Wal-Mart
*Matt Livingston*, self-employed
*Michael Herring*, employed by Acxiom
*Dotty Browning*, employed by UCA CS Dept.
*Jared Shoptaw*, employed by Wal-Mart Division
*Nathan Hotchkiss*, employed by Acxiom

**Internships**

*Jared Shoptaw*, Wal-Mart Information Division
*Bryce Ussery*, Wal-Mart Information Division

Faculty News

Karen Thessing completed an IBM Rational software Class in Aug. A partnership between UCA and IBM. She has served on many dept. and college committees. This academic year she is chairing the CS Faulty Search.

Carol Hambuchen completed her 4th yr. as a Instructor for the Central Arkansas Jr. University Program. Currently, serves as Course Coordinator for the recent Concurrent Credit Program. Carol also spends time serving on many committees.

Lev Igolnikov continues to teach service courses for our dept.

Michael Nooner, a recent CS Masters Prog. Graduate has Joined the Dept. as a instructor / technician.

James Abele joined us again this spring to teach Data Structures. He is currently a full-time employee at Acxiom.