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UNIVERSITY OF NORTH TEXAS™
COMPUTER SCIENCE & ENGINEERING
ALUMNI NEWSLETTER



Greetings from the CSE Chair

February 2014
CSE News
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UNT News



Dear CSE Alumni and Friends,

At the beginning of our Spring 2014 semester, I want to share with you the retirement of Don Retzlaff and Gary Goodman. Don was the longest serving faculty member and has now retired after 35 years. Many of you have had his classes and will fondly remember him. Dr. Goodman has been an adjunct professor since 2007 and has now retired as well. We thank both of them for their service to the CSE Department and wish them well in their future endeavors.

Congratulations to our CSE Cyber Defense Team on qualifying for the Southwest Regional Collegiate Cyber Defense Competition! The CSE Department was a Sponsor of the ACM Richard Tapia Celebration of Diversity in Computing in Seattle, February 5-8. The Distinguished Speaker series continues this semester with Dr. Cyrus Shahabi's talk "GeoCrowd: Harnessing the Power of Crowd for On-Demand Geographical Data Collection." Please read all the news of our faculty members below to see what is going on in our department. Coming up later this semester, our CSE Department will host the SoMiC Workshop: Security on the Move and in the Clouds.

Lettie Haynes is our Alumni Focus in this issue. Lettie graduated with a BS in 1982 from our CSE Department. Now she is BNSF's assistant vice president of technology services and she also serves on the College of Engineering's Advisory Board. Since the last newsletter I have

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Hefei University of Technology Scholars collaborate with Vision Researchers



Front row: Dr. Ye Yu, Dr. Bill Buckles, and Prof. Wentao Wu;
Back row: Qi Chen, Xiangjin Wang, Yi Jun, Sen Zhang, and Guangchun Chen (from UNT)

For five weeks in November and December, four students and two faculty members from Hefei (China) University of Technology (HFUT) gained experience and shared their research with Dr. Buckles and the members of his lab. During the interval, the students participated in research by attending weekly meetings, participating in discussions, giving presentations, and creating a visualization of data obtained from a local public transit system. Their advisors, Dr. Yu and Prof. Wu, were present during the latter part of the visit to assess the students' progress and to share information on projects underway at HFUT.

The students learned basic GIS skills and several new aspects of image processing. The lab gained a tool for visualizing ingress/egress data obtainable from bus-mounted cameras. The travel costs were borne by a new national program in China to support opportunities for multi-cultural interactions for Chinese students. At the conclusion of the visit, both parties believed the outcomes were beneficial to each and would be repeated when additional opportunities occur.

Prof. Mohanty delivers Keynote Address at International Conference



In a significant boost to UNT international visibility, **Professor Saraju Mohanty** delivered a keynote address at the IEEE Sponsored International Conference on Control, Automation, Robotics and Embedded Systems (**CARE 2013**). The conference was held December 16-18, 2013 at the Indian Institute of Information Technology in Jabalpur, India. The talk titled "**DfX for Nanoelectronic Embedded Systems**" highlighted the growth of VLSI to nanoelectronic systems, the issue faced by the designers, and solutions available to address them.

Prof. Mohanty also presented an invited talk titled "DfX for Nanoelectronic Circuits and Systems" at Bhopal, India at the invitation of Oriental Group of Institutes and Oriental University. The talk was well attended by students and faculty from the above institutes as well as nearby institutes. Oriental University has shown significant interest for collaboration with UNT in terms of research and student exchange. Both **Dr. Dhruva Ghai, Dean of Postgraduate Engineering and Research** and **Dr. Garima Thakral, the Dean of Undergraduate Engineering at the Oriental University** are UNT alumni and did their PhD under the supervision of Dr. Mohanty at NanoSystem Design Laboratory (**NSDL**). In fact, Dr. Ghai was the first PhD from NSDL.

The NSDL members published 15 papers in the last year. This included 7 journal and 8 conference papers. Selected journal publication includes the following:

- S. P. Mohanty, "Memristor: From Basics to Deployment", IEEE Potentials, Volume 32, No. 3, May/June 2013, pp. 34--39.
- O. Okobiah, S. P. Mohanty, and E. Kougiyanos, "Geostatistical-Inspired Fast Layout Optimization of a Nano-CMOS Thermal Sensor", IET Circuits, Devices & Systems (CDS), Volume 7, No. 5, September 2013, pp. 253--262.

NSDL student members and postdoctoral researchers traveled to ISQED 2013 as well as MWSCAS 2013 for various conference paper presentations. The papers presented by Karo Okobiah include the following:

- O. Okobiah, S. P. Mohanty, and E. Kougianos, "Geostatistics Inspired Fast Layout Optimization of Nanoscale CMOS Phase Locked Loop", in Proceedings of the 14th IEEE International Symposium on Quality Electronic Design (ISQED), 2013, pp. 562--567.

The papers presented by postdoctoral researcher Dr. Prasun Ghosal include the following:

- M. Sarkar, P. Ghosal, and S. P. Mohanty, "Reversible Circuit Synthesis Using ACO and SA based Quinne-McCluskey Method", in Proceedings of the 56th IEEE International Midwest Symposium on Circuits & Systems (MWSCAS), 2013, pp. 416--419.

Dr. Takabi moderates panel at Computer Security Conference

Dr. Hassan Takabi served as panels chair of the 29th Annual Computer Security Applications Conference (**ACSAC 2013**), which was held in New Orleans, December 9-13, 2013.

He also moderated a panel on "Cybersecurity and Cyber-Physical Systems: A Government Perspective" with panelists from NSF, DHS, and NIST, gave a tutorial on "Authentication & Authorization Standards for the Cloud" and chaired a session on "Mobile Systems Security".



News from Dependable Computing Systems Laboratory (DCSL)