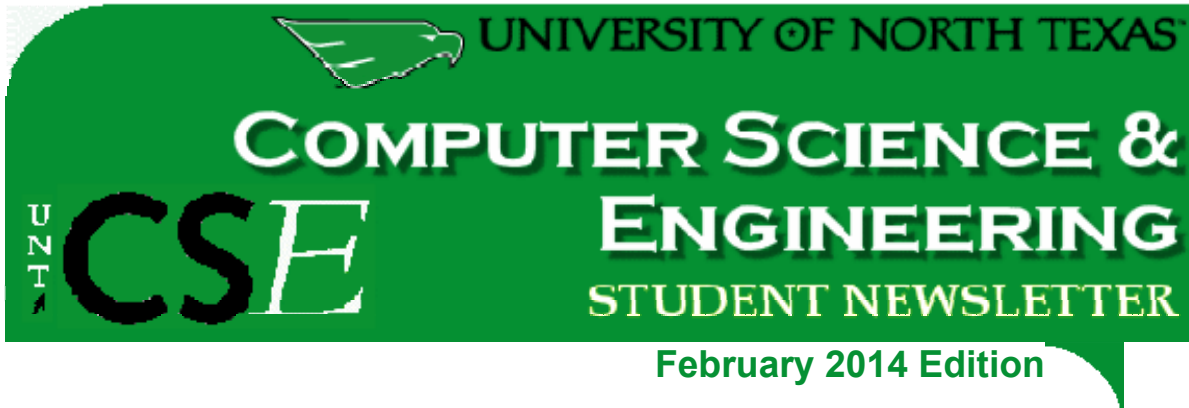**Mohanty, Saraju**

From:	csenewsletter@unt.edu
Sent:	Wednesday, February 12, 2014 4:55 PM
To:	CSEInstructors
Subject:	February 2014 CSE Student Email Newsletter

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UNIVERSITY OF NORTH TEXAS

COMPUTER SCIENCE & ENGINEERING

UNT CSE STUDENT NEWSLETTER

February 2014 Edition

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Distinguished Speakers in Spring 2014
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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. Kougianos, "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)