

## Department of Computer Science and Engineering News

ABET accreditation visit in Fall 2013  
 New Labs in CSE  
 Distinguished Speakers in 2013-2014  
 Active Faculty Research Grants in Fall 2013  
 Gifts to CSE  
 CSE Faculty recognized for promotion at UNT Faculty Success Dinner  
 CSE attends Grace Hopper Celebration for Women in Computing  
 CSE runs Camp Android at National Convergence Technology Center  
 NACLO coming to CSE in 2014  
 Dr. Bryant presents keynote lecture in Poland  
 Dr. Caragea gives talk in Greece; IIT seeks collaboration with CSE  
 Dr. Huang develops location-based social media search function  
 Dr. Kavi presents paper at workshop on Dataflow Models  
 Professor Mohanty Guest Edits Journal Special Issue on Nanoelectronics  
 New members join Human Language Technologies Lab  
 Net-Centric Software & Systems Center News  
 News from Software Engineering Language Laboratory (SELL)  
 ACM and ACM-W hosts Halloween event

## Student News

CSE PhD Student wins Toulouse Dissertation Award  
 CSE Students win at LeadingAge Hackfest  
 CSE Students defend PhD Dissertations  
 CSE Student defends MS Thesis  
 CSE Student presents at ATE PI's Conference  
 CSE Students work on Pain and Fear Study  
 Graduate Exhibition on March 1, 2014  
 Computer Science Education Week  
 Advising Corner

## College of Engineering News

CSE Students shine at CENG Showcase of Undergraduate Research  
 SWE members attend national conference

## Greetings from the CSE Chair

Dear CSE Students,

The end of our Fall semester is approaching and I wanted to share the news of our CSE Department with you. We were visited by ABET evaluators in the past month to reaccredit our Computer Engineering B.S. program and accredit for the first time our Information



Dr. Kavi at the entrance to the Edinburgh castle.

**Dr. Krishna Kavi**, Director of the Computer Systems Research Lab ([CSRL](#) and the NSF Net-Centric Industry / University Cooperative Research Center [IUCRC](#)), traveled to Edinburgh, Scotland in September 2013 to present a paper titled "MT-SDF: Scheduled dataflow architecture with mini-threads" at a workshop on Dataflow Models held in conjunction with Parallel Architectures and Compiler Technologies conference. The conference was held on the campus of the University of Edinburgh.

During this trip, Dr. Kavi met **Dr. Richard Kenway**, the Director of the High Performance Computing center at the University of Edinburgh. Kavi discussed possible collaborations with Dr. Richard Kenway. Dr. Kenway was very enthusiastic about collaborating with Dr. Kavi's research group and the NSF Net-Centric Industry/University Cooperative Research Center. ↑

### Professor Mohanty Guest Edits Journal Special Issue on Nanoelectronics

**Dr. Saraju Mohanty** was a guest editor for a special issue titled "Design Methodologies for Nanoelectronic Digital and Analog Circuits" for IET Circuits, Devices & Systems (CDS) Journal, which was published as its Volume 7, No. 5, on September 2013. In the current semiconductor technology trend, while the nanoscale MOSFET is still doing well, other nanoelectronics technologies like Multigate FET, Graphene FET, Tunnel FET, are being researched widely as possible successors. In fact, the triple FET has been used in fabricating current high-end processors.

The new technologies may provide new mechanisms to address key issues in the processor design including power consumption, thermal effects, process variation, reliability, and security while at the same time bring new unknown problems for the design engineers. Overall making robust and efficient chips with high yield while addressing the known and unknown design issues



need research. The special issue brings selected papers to drive this research.

Prof. Mohanty was also a guest editor for another special issue titled "Advanced Techniques for Efficient Electronic System Design", for Springer Circuits, Systems, and Signal Processing Journal", which was published as its Volume 32, Issue 6, on December 2013. This special issue of electronic system design including the multi-standard communication, digital watermarking, memory Integrity detection and protection in embedded systems, and information security in a system-on-a-chip (SoC).

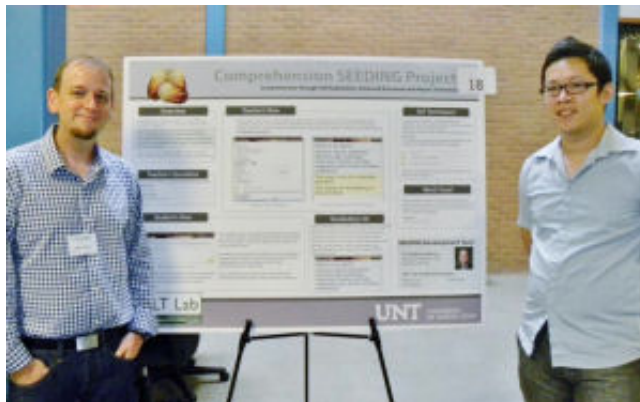
In the other news from NanoSystem Design Laboratory (NSDL), Dr. Mohanty has been invited to deliver a **keynote address** at IEEE Sponsored International Conference on Control, Automation, Robotics and Embedded System (CARE), to be held during 2013. CARE 2013 is organized by IIT, Jabalpur, India. ↑

## New members join Human Language Technologies Lab

**The Human Language Technologies (HiLT) Lab**, directed by **Dr. Rodney Nielsen**, has been growing. With a new name, the HiLT Lab replaces the former LIT Lab. Currently, the HiLT Lab's major projects include the Comprehension SEEDING Project, researching new forms of HLT-enabled educational technology that enable enhanced classroom discourse, and the Companionbots project, researching HTL-enabled health and wellbeing interactions with the elderly. Check out more on the new HiLT Lab website at <http://hilt.cse.unt.edu/> or, for up-to-date information, follow them on twitter @hiltlab.

### AWARDS:

**James Glenn** and **Mingyu Lin** won the best poster award at this year's Showcasing Undergraduate Research in Engineering event (see more details in the College of Engineering section in this newsletter).



### NEW MEMBERS:

We are happy to introduce some new additions to the team.

**Keerat Baweja** is a junior at the Texas Academy of Math and Science at University of North Texas campus. TAMS is a two-year academic curriculum focused on mathematics and science that allows students to complete their high school diploma while earning college credits. Keerat is interested in the field of robotics and has participated in various competitions. She has joined Dr. Rodney Nielsen's HiLT lab to learn about the field of computational linguistics. She is really excited to be a part of this lab and is looking forward to expanding her knowledge and skills.



**Benjamin Garside** is an undergraduate student working towards his BS in Computer Science. He was selected to participate in UNT's Research Experience for Undergraduates program during the summer of 2013, where he researched combinatorial testing, regression testing, and user-generated test-case prioritization algorithms. Currently, he is testing as part