Greetings from the CSE Chair

Dear CSE Alumni and Friends,

The Spring 2016 semester is underway and I wanted to share with you the news of our Department of Computer Science and Engineering.

Congratulations to Dr. Saraju Mohanty on receiving the 2016 PROSE (Professional & Scholarly Excellence) Award for the best textbook in Physical Sciences & Mathematics from the Association of American Publishers (AAP)! We are very proud when our faculty members receive national recognition for the CSE Department. As our numbers continue to grow, we are searching for several new faculty members to join us in Fall 2016.

As you may have heard, UNT has opened the New College at Frisco. We will offer a M.S. in Computer Science with certificates in cybersecurity, data science and game programming beginning in Fall 2016. We are working to plan this program and provide the very best that CSE has to offer in Frisco!

Also, we are expanding our department by building new labs and faculty offices in new space at the end of our hallway on the second floor at Discovery Park. If you have not been back to CSE, we invite you to come back for a visit. We appreciate when our alumni help support our CSE program. In the spirit of UNT’s 125th anniversary, please consider contributing $125 at this webpage. Your support is important to us!

Barrett Bryant
Professor and Chair

Department of Computer Science and Engineering News

Distinguished Speakers in Spring 2016
Language Analysis of Software and Related Artifacts."

ACM Chapter meetings announced for Spring 2016

This semester UNT’s ACM chapter will focus on offering information and activities not offered in our courses. These meetings will be tailored for computer science students or just students desiring to learn something new. A tentative schedule is listed below. Anyone that would like to suggest an activity that they think would help the student body should post these suggestions on this page. Meetings are held at Discovery Park F223 at 1 pm and refreshments are always provided. Please contact ACM President Quentin Mayo with any questions, suggestions, or comments at untacm@yahoo.com.

February 22, F219 1 pm - (Coding) Advance Python Coding ( Big Data | Web Scrapping | w/ Machine Learning - Beautiful-soup, Sklearn, Panda )

March 7, F219, 1 pm - Statefarm Coding Interview Prep Guide!!!

March 21, F223, 1 pm - (Debugging Analysis) Reverse- Engineering

April 4, F223, 1 pm - (Development) Web Development in minutes using AngularJS, Laravel, and MySQL

April 18, F223, 1 pm - (Hacking) Forgot your password? No Problem

April 25, F223, 1 pm - (Ubuntu) Basic to Advance Terminal Commands

Cybersecurity at UNT CSE featured in the North Texan

Cybersecurity at UNT is featured in the cover story of the Winter 2015 edition of the North Texan. UNT alumnus Tawfiq Shah (’13, ’15 M.S.) is a computer science and engineering graduate who is a senior research engineer at a Richardson-based company called Armor developing innovative solutions to protect companies. Shah creates cloud solutions for
healthcare, financial, retail, and other industries. Read more about Shah in the "Arming Industry" section of the North Texan.

Valmiki Mukherjee (’06 M.S.), Dr. Saraju Mohanty’s first UNT Computer Engineering graduate with VLSI specialization, was also featured in The Winter 2015 edition of the North Texan in "Cyber Security Tips". Mukherjee is the chief security architect of Cognizant’s Security Products business for North America. He is a globally recognized expert in cyber and cloud security domains. In 2014, Mukherjee established the Cyber Future Foundation, a global think tank of cybersecurity and policy experts.

News from the Center for Information and Computer Security

The Center for Information and Computer Security (CICS) is an interdisciplinary center, bringing together individuals and organizations with an interest in the areas of information security, computer security, information assurance, and cybercrime. CICS has been recognized by the National Security Agency and Department of Homeland Security as a "Center of Academic Excellence in Information Assurance Education."

Dr. Ram Dantu, Director of the Center for Information and Computer Security, was noted in a speech by the National Science Foundation Director Dr. France A. Córdova at the Texas Research Summit. Dr. Córdova talked about Dr. Dantu’s research in Voice over IP (VoIP) security as an example of how cybersecurity research like his has led to products, services, startups and innovative solutions in the marketplace.
Professor Mohanty receives 2016 PROSE Award

Professor Saraju Mohanty received the 2016 PROSE (Professional & Scholarly Excellence) Award for the best textbook in Physical Sciences & Mathematics from the Association of American Publishers (AAP). Dr. Mohanty’s book, *Nanoelectronic Mixed-Signal System Design*, was published in February 2015 by McGraw-Hill Education. See all the award PROSE Award winners [here](#). Congratulations to Dr. Mohanty!

Professor Mohanty was the founding general chair for IEEE International Symposium on Nanoelectronic and Information Systems ([IEEE-iNIS 2015](#)) which was held during December 21-23, 2015 at Indore, India. iNIS has been initiated as a sponsored meeting of IEEE-CS Technical Committee on VLSI that endorses a league of successful meetings such as ASAP, ISVLSI, and ARITH. The conference had four keynote speakers from various U.S. universities and research institutes in France. The conference proceedings were published by IEEE-CS conference publication services (CPS). Prof. Mohanty discussed IEEE scholarship and outreach activities. IEEE Circuits and System Society outreach initiative sponsored this meeting, along with UNT Computer Science and Engineering Department.

In other news from NanoSystem Design Laboratory ([NSDL](#)), several more students have recently joined. NSDL now has 7 Ph.D. students and 3 M.S. thesis students engaged in various area of Nanoelectronic system design targeted for Internet of Things (IoT) and Smart City components. For example, Abu Sayeed joined NSDL from Lamar University in Spring 2016. NSDL student Manoj Kumar Mukka defended his masters thesis titled "Simulink based Design and Implementation of a Solar Power based Mobile Charger" in Fall 2015. In the last year, members of NSDL published a total of 10 journal/conference articles. A selected example includes the following:


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**NSF Net-Centric & Cloud Software & Systems (NCSS) Industry & University Cooperative Research Center (I/UCRC) News**

Dr. Krishna Kavi’s former student **Tomislav "Tommy" Janjusic** (Ph.D. 2013) developed **Gleipnir** while at UNT. Following his graduation from UNT, Janjusic received a postdoctoral fellowship at the Oak Ridge National Laboratory. He continued his work on Gleipnir which is featured in "Finding New Ways to Optimize Code" at the Oak Ridge Leadership Computing Facility.

Another student in Dr. Kavi’s lab is **Patrick Kamongi**. He is a computer science and engineering Ph.D. student at the University of North Texas, who is being supported by I/UCRC NCSS projects. His research work focuses on cloud computing security. Under the advising of Dr. Krishna Kavi, he has gained invaluable research experience working on I/UCRC projects and his ongoing work has resulted into some preliminarily novel published works.

This past summer 2015, Patrick was offered and completed a competitive internship with a cyber threat intelligence security firm ‘iSIGHT Partners’ where he worked as a cyber threat researcher intern. His responsibility duties were in lieu of supporting department activities such as conducting malware research, collecting cyber threat data, and many other tasks.
Jin Shao*
Dissertation: *Advanced Power Amplifiers Design for Modern Wireless Communication*
Major Professor: Song Fu

Ziming Zhang*
Dissertation: *Adaptive Power Management for Autonomic Resource Configuration in Large-Scale Computer Systems*
Major Professor: Song Fu

*Summer 2015 Graduate*

To see all of our Ph.D. graduates from past years, please see this [Ph.D. page](http://www.cse.unt.edu/people/AlumniNewsletters/2016_Feb_AlumniEmailNewsletter.html).

### CSE Students defend Theses

Congratulations to these M.S. students who successfully defended their theses!

**Manoj Kumar Mukka**
Thesis: *Simulink® Based Design and Implementation of a Solar Power Based Mobile Charger*
Major Professor: Dr. Saraju P. Mohanty
Defense Date: November 24, 2015

**Siyuan Liu**