

CSE QUBITS

Computer Science and Engineering Newsletter

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Greetings from the Chair

Welcome back! I hope you have all had a successful start to the Spring Semester. Summer and Fall semesters are right around the corner; please be sure to check your registration dates so that you'll be allowed in your desired courses. Delaying could mean you miss out on a class you want or a course may even be dropped from the schedule due to low enrollment!



This year we got the exciting opportunity to host the SCRIPT Symposium for CSforALL. CSforALL is a central resource for individuals and organizations interested in K-12 computer science (CS) education. They connect providers, schools and districts, funders, and researchers working toward the goal of providing quality CS education to every child in the United States. You can read all about the event in this month's edition under Department News.

We rely on generous donations to fund conferences, host events, and student travel. Please consider passing our donation information on to your friends and family so we can continue our practice of supporting student opportunity through travel. Be sure to also check out Upcoming Events section to see all of our scholarship and sponsorships!

We'd also like to encourage our students to take advantage of the unique clubs and student organizations available next semester. Please check out our upcoming events for more information. We are redesigning how we support our student orgs, so be sure to stay tuned.

Donors/Gifts

Thanks to generous donor gifts, the CSE department is able to fund student travel, student organization special projects, department remodeling and overhaul, and put valuable resources into other student centric activities. Please remember that we depend on donations to keep activities and events alive. Many employers offer a donor match, so please encourage your family to consider donating and to check with their employer to see if they match! You can even designate what you want your donation used for!

If you would like to contribute and make a gift, contact Diana.Bergeman@unt.edu.

Connect With Us



Department News

CSforALL SCRIPT SYMPOSIUM

UNT was selected as the host location for CSforALL's SCRIPT Symposium. CSforALL makes high-quality computer science an integral part of the educational experience of all K-12 students and teachers and strives to support student pathways to college and career success.

This symposium was attended by teachers and administrators representing schools from across the nation, and even one from across the globe.



Best Paper Award

Ryan Michaels, David Adamo, and Dr. Renee Bryce received a Best Paper Award at the Computing and Communication Conference and Workshop for their paper, "Combinatorial-Based Event Sequences for Reduction of Android Test Suites". This work extends the application of combinatorial testing to the Android domain.



CCWC Logo

New MS in Artificial Intelligence



UNT Engineering has opened a new master's of science degree in artificial intelligence. As the only standalone program in the state of Texas and one of few nationwide, this unique program will offer students the opportunity to enhance their skillset in the growing field of AI. Click [here](#) to learn more.

Student News

CSCE Graduate Student Orientation

This Spring, we welcomed around 60 students to our Mean Green family! There were so many students that came to the orientation that we had to split it up into two sessions! We are so glad to see our program growing.

We have a referral program for our active students, if you recruit a first time CSE grad student applicant, they get accepted, enroll, and are here after the census date; we will give you **\$100** in your student account.



CSE graduate student orientation

Masoud Narouei Doctoral Dissertation



Please join us in congratulating Masoud Narouei on successfully defending his doctoral dissertation on "A Top-Down Policy Engineering Framework for Attribute-based Access Control" on January 24, 2020. Pictured left to right are major professor Dr. Eduardo Blanco, Masoud Narouei, Dr. Rodney Nielsen, and Dr. Hyunsook Do.

Pictured left to right are Dr. Eduardo Blanco, Masoud Narouei, major professor Dr. Rodney Nielsen, and Dr. Hyunsook Do.

Yang Zhou Doctoral Dissertation

Please join us in congratulating Yang Zhou on successfully defending his doctoral dissertation on “Multi-Source Large Scale Bike Demand Prediction” on January 24, 2020.



Pictured left to right are Dr. Song Fu, Dr. Bill Buckles, Yang Zhou, major professor Dr. Yan Huang, and Dr. Wei Jin.

Student Travels to Spain



Rohan Maheshwari

Recently, Rohan Maheshwari had the opportunity to travel to Valencia, Spain with Dr. Kavi to present research findings from their project, “Requirements Traceability in CPS using Semantic Inference” at ICSEA 2019. Having learned much about Cyber-Physical systems, cybersecurity, and ontology engineering, he was also exposed to an entirely new society abroad. Additionally, he is proud to share that both of their research papers were accepted for publishing in the IARIA Journals and one the papers, “SIMON: Semantic Inference Model for Security in CPS using Ontologies” was honored with “Best Paper Award” at the conference. He’d like to acknowledge and thank Rohith Yanambaka Venkata and Dr. Krishna Kavi for supporting is research interests and providing him the opportunity to travel to Spain.

Cyber Security Club

Earlier this month, the Cyber Security Club met and the topic was . Each club meeting has a new topic; be sure to watch your bulk mail messages and check out the bulletin board for club meeting dates and meeting topics.



Cyber Security Club



Eagle Call - Upcoming Events

- First Day of Registration—March 16, 2020
- Natural Language Processing Graduate Merit Scholarship. For more information, please visit: <https://computerscience.engineering.unt.edu/news/natural-language-processing-graduate-merit-scholarship>
- Scholarships and Sponsorships for Conferences are **NOW OPEN**:
 - ACM Richard Tapia Celebration of Diversity in Computing Conference-Apply [here](#)
 - Grace Hopper Celebration Women of Color in Technology– Apply [here](#)
 - Grace Hopper Celebration of Women in Computing– Apply [here](#)

“Git” Informed- Did You Know?

- Computer Science and Engineering is one of the biggest departments at UNT.
- According to statista, by 2023, over 50 billion devices will be connected on the internet.
- A 15 year old hacked NASA computers and caused a 21-day shutdown of their computers.
- In 1833, Charles Babbage invented all the parts a modern computer uses, but it wasn't until 120 years later that the first modern computers were invented.

Faculty News

Mohanty Receives Sevice Award and IoMT Grant



Dr. Saraju Mohanty

Dr. Saraju Mohanty continues his research and works to ensure that the Internet of Medical Things (IoMT) is protected, too. Read about his latest work, and the grant funding to support it, [here](#):

Funding for the project is split equally between UNT and the University of Texas at Tyler.

Also, Dr. Mohanty, recently received the Outstanding Service Award from the IEEE Consumer Electronics Society. Mohanty received the award for his outstanding service to the society and his leadership as the editor-in-chief of IEEE Consumer Electronics Magazine.

Puzzle Column

Find out Cheryl's Birthday. This puzzle appeared in the Singapore and Asian Schools Math Olympiad and went viral in 2015. The puzzle is:

Albert and Bernhard become friends with Cheryl and want to know when her birthday is. Cheryl, however, simply provides the month to Albert and the day of the month to Bernhard from a possible list of 10 dates shown below:

May		15	16			19
June				17	18	
July	14		16			
August	14	15		17		

(Albert does not know day of the month and Bernhard does not know the month)

Albert: I don't know when Cheryl's birthday is, but I know that Bernhard doesn't know too.

Bernhard: At first I don't know when Cheryl's birthday is, but I know now.

Albert: Then I also know when Cheryl's birthday is.

So when is Cheryl's birthday?

(Solve this on your own, there are solutions posted on the web that you do not want to consider before you have attempted to solve this by yourself.)

As a bonus: extend Cheryl's birthday puzzle on the 3rd dimension – year she was born. Consider a 3rd friend David who has been told only the year she was born. Change the above table in order to make everything work in the 3-dimensional setting

Please email Nagendra.gulur@unt.edu for puzzle ideas and solutions to posted puzzles. Please start the subject line of your email with "PUZZLE:".

** The first one to successfully solve the puzzle will receive a FREE swag bag 😊



Would You Rather?

The January 2020 winner is:



Don't forget to stop by the bulletin board located in Route 66 and cast your vote for February's Would You Rather: Get valentines candy from your teacher? Or get a homework pass from your teacher?

Kuddos Corner

Dr. Rodney Nielsen Hosted NACLO



Dear Dr. Nielson,

Thank You for being such a gracious host and an outstanding ambassador for UNT. The students that took the NACLO test yesterday are lucky to have the opportunity to expand their minds and to be able to take the test at your wonderful facility. My son, Stone Scalf, enjoyed challenging himself yesterday and the "pizza" afterwords (*sic*). Please share my thanks with George (Mihaila) and Namratha (Urs) as well. They worked hard to ensure the students had what they needed in a comfortable setting and they worked to address my needs as a parent / chaperone as well. I can see that they follow your lead in that respect. The UNT bag filled with goodies was a wonderful surprise.

Warmly,