**Mohanty, Saraju**

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**September 2013 Edition**
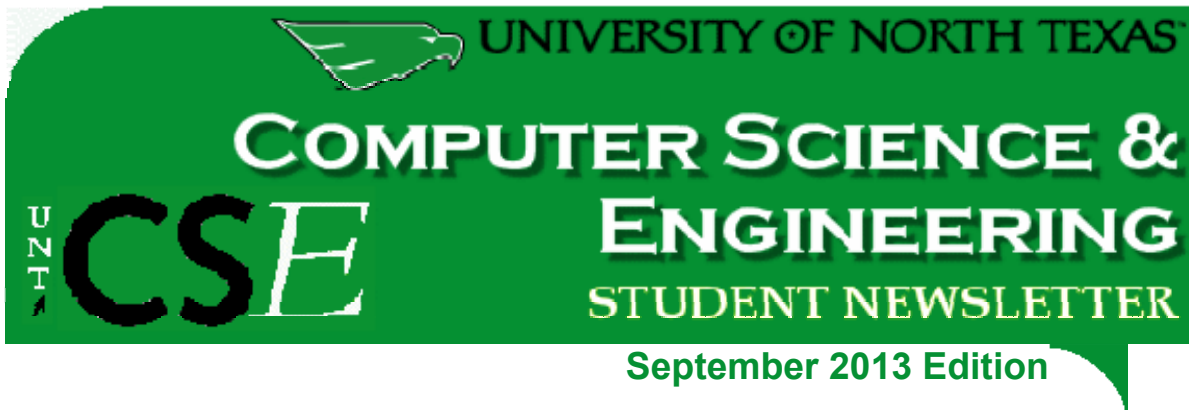
## Department of Computer Science and Engineering News

Welcome Picnic on September 16
New CSE Faculty
ABET accreditation visit in Fall 2013
Distinguished Speakers in 2013-2014
Computer Science added to Teach North Texas Program
CSE Research displayed at Perot Museum
New areas for CSE Students
Dr. Armin Mikler receives NIH grant
Dr. Ram Dantu's research featured on NSF website
Dr. Mohanty awarded U.S. patent for digital video security methods
CSE faculty and PhD graduate co-chair ICCCNT 2013
Bug Wars REU at CSE
RoboCamp offers new AppCamp
CSRL members meet with researchers in Italy and Germany
News from Dependable Computing Systems Lab
New members join Human Language Technologies Lab
UGC Raman Research Fellow Visits NanoSystem Design Laboratory (NSDL)
Software Engineering Language Laboratory (SELL) News
News from Trusted Security Systems Lab (TSSL)
CSE says Farewell to Rada Mihalcea

## Student News

Congratulations to CSE graduates
Students defend MS Theses
CSE Student presents at HiTec Conference
Join ACM and ACM-W!
CSE Students attend Stars Alliance Celebration
Computer Science National Honor Society
Advising Corner
Career Fair at Discovery Park on October 3
Geek Week welcomes CSE students

## College of Engineering News

## Dr. Mohanty awarded U.S. patent for digital video security methods

Dr. Saraju Mohanty, Associate Professor in the CSE Department, has been awarded a U.S. patent for his "Apparatus and Method for Transmitting Secure and/or Copyrighted Digital Video Broadcasting Data over Internet Protocol Network."

His invention provides comprehensive solutions for securing digital video, and it offers advantages for content providers like Netflix, digital television companies, Hollywood movie studios, their distributors and end-users, and private parties posting to YouTube or sending video files over the internet.

For more details about Dr. Mohanty's patent, please read this **press release** Dr. Mohanty directs the **NanoSystem Design Laboratory** in the CSE Department. ↑

## CSE faculty and PhD graduate co-chair ICCCNT 2013



Dr. Krishna Kavi talks to Dr. Xiaohui Yuan in the center with Dr. Murali Varanasi on the right at ICCCNT 2013.

The Fourth International Conference on Computing, Communication and Networking Technologies (**ICCCNT 2013**) was held at Vivekanandha College of Engineering for Women, Tiruchengode, Tamilnadu, India on July 4-6, 2013. This Conference provided a forum for international researchers from academia and practitioners in industry to meet and exchange ideas and recent research work on all aspects of information and communication technologies.

CSE faculty member Dr. Bill Buckles was Co-Chair of the Technical Committee. Dr. Krishna Kavi, Dr. Xiaohui Yuan, and Dr. Mahadevan Gomathisankaran, all CSE faculty members, were Technical Committee Members. Dr. Mohammed Yassine Belkhouche, a Summer 2012 CSE PhD graduate, was also on the Technical Committee. Dr. Murali Varanasi, faculty member in the UNT Department of Electrical Engineering, and Dr. Prakash Duraisamy, a PhD graduate of the CSE Department in December 2012 and now a visiting scientist at MIT, served as the Conference Co-Chairs. To see more pictures of this conference, go to this **Media Gallery page**. ↑

## Bug Wars REU at CSE

the National Science Foundation and Science magazine. Natalie's primary research interests are in Natural Language Processing, and she looks forward to advancing her academic career in the coming semesters as a member of Dr. Nielsen's lab.

## Master's Student:

Anil Kumar Veerepally, after completing his bachelors from JNTUH, India, worked for Amazon Dev Centre for 3 years in Seller Experience Technology team and led the Support Engineers. Anil is now a Master's Student, specializing in Artificial Intelligence and is working for Dr. Rodney Nielsen's Companionbots Project. He likes to spend time eating chocolates, playing cricket and watching movies.

## Student Award:

Karen Mazidi, a second-semester PhD student, was recently selected to participate in the UNT Graduate Student Research & Fellowship Support Program. This program consists of workshops on preparing proposals for grants and fellowships, and mentoring during the writing and application process. Thirty students were selected from across all disciplines of UNT graduate students. ↑

## UGC Raman Research Fellow Visits NanoSystem Design Laboratory (NSDL)

University Grant Commission, Government of India, Raman Research Fellow, Dr. Prasun Ghosal visits NSDL for a year for research collaboration. The fellowship is highly competitive which aims to facilitate the interactions of the researchers from India with the USA academic/scientific community to learn new academic and scientific research methods and to participate in collaborative research. The fellowship provides funds of $3,000 per month for 12 months and $1,200 conference travel. Dr. Ghosal is a faculty member at the Bengal Engineering and Science University (BESU), the 2nd oldest Engineering institute in India. His research interests include VLSI physical design algorithm, Network-on-a-Chip (NoC), and quantum circuits. He is particularly interested to collaborate in nanoelectronic design, optimization, and design flow needed for nanoelectronic circuits.
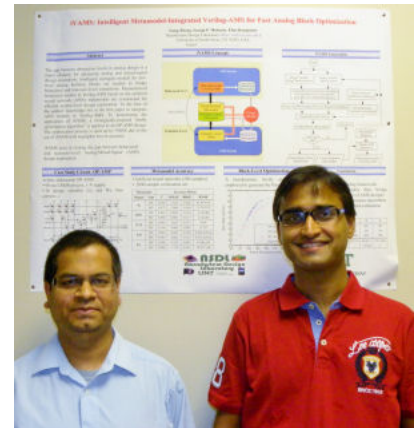
In the other news from NSDL, members from NSDL published a total of 4 journal papers and 8 conference papers in the current year. NSDL PhD candidate Karo Okobiah made multiple presentations at different double-blind review conferences including one at the International Symposium on Quality Electronic Design International Symposium on Quality Electronic Design]] held at Santa Clara, CA. NSDL PhD candidate Karo Okobiah and visiting scholar Dr. Ghosal made multiple presentation at the 56th IEEE International Midwest Symposium on Circuits & Systems (MWSCAS), Columbus, OH. The presentations made include the following:

- G. Zheng, S. P. Mohanty, E. Kougianos, and O. Okobiah, "Polynomial Metamodel Integrated Verilog-AMS for Memristor-Based Mixed-Signal System Design", in *Proceedings of the 56th IEEE International Midwest Symposium on Circuits & Systems (MWSCAS)*, 2013, pp. 916--919.
- O. Okobiah, S. P. Mohanty, and E. Kougianos, "Fast Statistical Process Variation Analysis using Universal Kriging Metamodeling: A PLL Example", in *Proceedings of the 56th IEEE International Midwest Symposium on Circuits & Systems (MWSCAS)*, 2013, pp. 277--280.

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## Software Engineering Language Laboratory (SELL) News

Dr. Gomathisankaran will be coaching the UNT CCDC team for the year 2014. This year's team will be capitalizing on the previous year's successful qualification and experience at the southwest regional competition. Dr. Gomathisankaran is teaching an Advanced Information Systems Security course in Fall 2013 which will be used to train students to compete in this competition. We encourage all UNT students who want to participate in the CCDC competition to take this course. ↑

## CSE says Farewell to Rada Mihalcea

Rada Mihalcea left our CSE Department to take a position at the University of Michigan at the end of the Spring 2013 semester. Dr. Mihalcea came to UNT in 2002 and created the Language and Information Technologies (LIT) Laboratory. CSE faculty and staff said goodbye to Dr. Mihalcea at a dinner hosted by Dr. Bryant at Romano's Macaroni Grill in Lewisville, TX in July. Pictures from that event are here in our Media Gallery. ↑



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# Student News

## Congratulations to CSE graduates

Congratulations to all of our Department of Computer Science and Engineering graduates in Spring 2013 and Summer 2013!

PhD Graduates in Spring 2013

**Carmen Banea**
**Dissertation: "Extrapolating Subjectivity Research to Other Languages"**
**Major Professor: Rada Mihalcea**

**Olivia Glicine Loza**
Dissertation: "Optimizing Non-Pharmaceutical Interventions using Multi-Coaffiliation Networks"
Major Professor: Armin Mikler

**Ravi Som Sinha**
Dissertation: "Finding Meaning in Context using Graph Algorithms in Mono- and Cross-Lingual Settings"
Major Professor: Rada Mihalcea

Geng Zheng
Dissertation: "Layout-Accurate Ultra-Fast System-Level Design Exploration through Verilog-AMS"
Major Professor: Saraju P. Mohanty

## PhD Graduates in Summer 2013

**Dhanyu Eshaka Amarasinghe**
Dissertation: "Real-time Rendering of Burning Objects in Video Games"
Major Professor: Ian Parberry

**Enkh-Amgalan Baatarjav**
Dissertation: "Privacy Management for Online Social Networks"
Major Professor: Ram Dantu