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UNIVERSITY OF NORTH★TEXAS™
COMPUTER SCIENCE & ENGINEERING
ALUMNI NEWSLETTER

Greetings from the CSE Chair

September 2012
CSE News
Alumni News
Student News
College of Engineering News
UNT News

Dear CSE Alumni and Friends,

The UNT Department of Computer Science and Engineering is 40 years old and you are invited to attend our 40th Anniversary Celebration on Friday, October 26. You are also invited to tour our CSE Department that day at 10 am, 2 pm and 4 pm. CSE students will be doing demos at the first two tours. We are excited about this event and we hope you are planning to attend! Please see the invitation below and RSVP by September 30.

Just before the semester began, Dr. Krishna Kavi's Net-Centric Software and Systems Industry/University Cooperative Research Center won the Tech Titan of the Future, University award. Our Robocamp program won the same award in 2010. We are proud these programs are being recognized in the North Texas region.

We recently received notification from the ABET Computing Accreditation Commission that our Computer Science B.S. has been re-accredited. Our department was among the first departments to receive ABET CAC accreditation for a B.S. in computer science in 1986, and we have followed this with accreditation of our B.S. in computer engineering in 2008. Our newest degree is a B. A. in Information Technology and we plan to seek accreditation for this in the next accreditation cycle.

Rodney Nielsen joins the CSE Faculty as an Associate Professor. Dr. Nielsen received a dual Ph.D. in Computer Science and Cognitive Science from the University of Colorado, Boulder in 2008. Before coming to UNT, Dr. Nielsen was an Assistant Professor Adjunct in the Computer Science Department at CU, a Research Scientist in CU's Center for Computational Language and Education Research, and a Research Scientist with Boulder Language Technologies.

Dr. Nielsen's research is primarily in the areas of Machine Learning, Computational Semantics, **Natural Language Processing**, and the application of these fields to **Educational Technology**, Health Informatics, Companion Robots, and End-User Development.

In Fall 2012, Dr. Nielsen is teaching Natural Language Processing (CSCE 5290). More information about Dr. Nielsen is available at his **website**.

Under Prof. Mohanty's Leadership, UNT gets Major Visibility at International Conference

Prof. Mohanty (center) with his Ph.D. students Karo Okobiah (left) and Geng Zheng (right) at ISVLSI 2012.

Prof. Saraju Mohanty was the conference chair for IEEE-CS International Symposium on VLSI 2012 (**ISVLSI 2012**) which was held in Amherst, MA August 19-21, 2012. As the general chair, he provided leadership role for ISVLSI 2012. Prof. Mohanty was guest editor for two special issues in highly visible international journals. One special issue titled

Power, Parasitics, and Process-Variation (P3) Awareness in Mixed-Signal Design appeared in ASP Journal of Low-Power Electronics, Volume 8, Issue 3, June, 2012. Another special issue titled New Circuit and Architecture Level Solutions for Multidiscipline Systems appeared in ACM Journal on Emerging Technologies in Computing Systems (JETC), Volume 8, Issue 3, August, 2012.

Two of Dr. Mohanty's students Geng Zheng and Karo Okobiah also attended ISVLSI 2012. Both Geng and Karo are Ph.D. candidates and pursuing research in the areas of nanoscale CMOS mixed-signal metamodeling and Verilog-AMS modeling, respectively under the supervision of Prof. Mohanty. Their presentations at ISVLSI 2012 included the following papers:

- G. Zheng, S. P. Mohanty, and E. Kougianos, Metamodel-Assisted Fast and Accurate Optimization of an OP-AMP for Biomedical Applications
- O. Okobiah, S. P. Mohanty, and E. Kougianos, Geostatistical-Inspired Metamodeling and Optimization of Nano-CMOS Circuits
- O. Okobiah, S. P. Mohanty, E. Kougianos, O. Garitselov, and G. Zheng, Stochastic Gradient Descent Optimization for Low Power Nanoscale CMOS Thermal Sensor Design

Visiting Scholar at Computer Vision and Intelligent Systems Lab

For the past three months, **Dr. Anusha Chennamma** has been a visiting scholar at the Computer Vision and Intelligent Systems Lab (**CoVIS**). She is currently an Assistant Professor at the Sri Jayachamarajendra College of Engineering in India. She received her Ph.D. in Computer Science and Technology in 2011. Her expertise is in image processing and computer vision. She has done several research projects including face image recognition and image authentification, and received awards and scholarships from conferences and the government of India. During her stay at UNT, she will be working with graduate student Mohan Velagaleti on automatic gaze tracking using web cameras.

Dr. Xiaohui Yuan, Director of CoVIS, and Dr. Anusha Chennamma

News from Dependable Computing Systems Lab

Student News

Congratulations to CSE graduates

Congratulations to all of our Department of Computer Science and Engineering graduates in **Spring 2012** and **Summer 2012**.

Ph.D. Graduates in Spring 2012

Oleg Garitselov
Dissertation: "Metamodeling-based Fast Optimization of Nanoscale AMS SoCs"
Major Professor: Saraju Mohanty

Balathasan Giritharan
Dissertation: "Incremental Learning with Large Datasets"
Major Professor: Xiaohui Yuan

Dr. Giritharan is now a Data Scientist for City Search in West Hollywood, CA.

Terry Wayne Griffin
Dissertation: "GPS CaPPture: A System for GPS Trajectory Collection, Processing, and Destination Prediction"
Major Professor: Yan Huang

Dr. Griffin is an Assistant Professor in the Department of Computer