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

Greetings from the CSE Chair

November 2011
CSE News
Alumni News
Student News
College of Engineering News
UNT News

Dear CSE Alumni and Friends,

We are approaching the end of the Fall 2011 semester and I wanted to share the news from this semester with you. As you may recall, our Robocamp won the Tech Titan Award in 2010. The Metroplex Technology Business Council came to Discovery Park recently and presented us with a check for our Summer Robocamp for Girls. We are proud of this program and recognize Robert Akl and David Keathly, co-directors of the camp, for their work with this excellent CSE program.
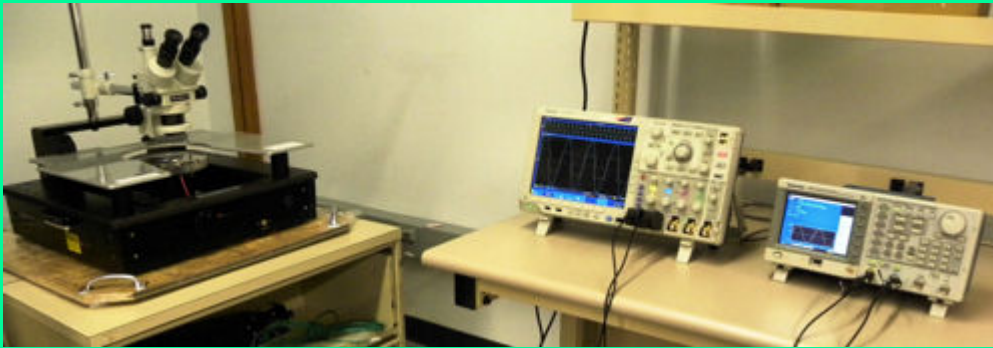
Congratulations to Dr. Ram Dantu for being selected for the Innovation Corps award from the National Science Foundation. He is one of only 21 recipients in the country to receive this award. Dr. Dantu's Network Security Lab is featured in this issue along with all the other CSE Department news. One of Dr. Dantu's former Ph.D. students, Prakash Kolan, is our Alumni Focus in this issue.

I have enjoyed meeting some of our CSE alumni at the UNT Homecoming and on my trips around the country. As I mentioned in the last issue, our Department of Computer Science and Engineering is celebrating its 40th anniversary. Until now we have held a departmental picnic and hosted Dr. Ali Hurson as a Distinguished ACM Speaker (story below). We would like to have additional speakers but also hold an event where all of our alumni and

NanoSystem Design Laboratory Acquires State-of-the-Art VLSI Instruments

NanoSystem Design Laboratory (NSDL) in the CSE Department has received state-of-the-art equipment for VLSI design and characterization. An advanced probing station was acquired for facilitating wafer characterization. A dual channel arbitrary function generator was obtained that can generate signals to provide input signals. For analysis and characterization of chips, a mixed-signal analyzer was acquired. Altogether they provide the NSDL an opportunity to fully characterize chips.

As a demonstration of leadership VSLI CAD research conducted at the NSDL, director Dr. Mohanty was invited to join the International Conference on VLSI Design 2012 technical committee as a track chair for "CAD for Analog Mixed-Signal Circuits". Dr. Mohanty also serves as the publication chair of International Symposium on Electronic-System Design (ISED) 2011 which is technically co-sponsored by IEEE-CS and IEEE-CAS.
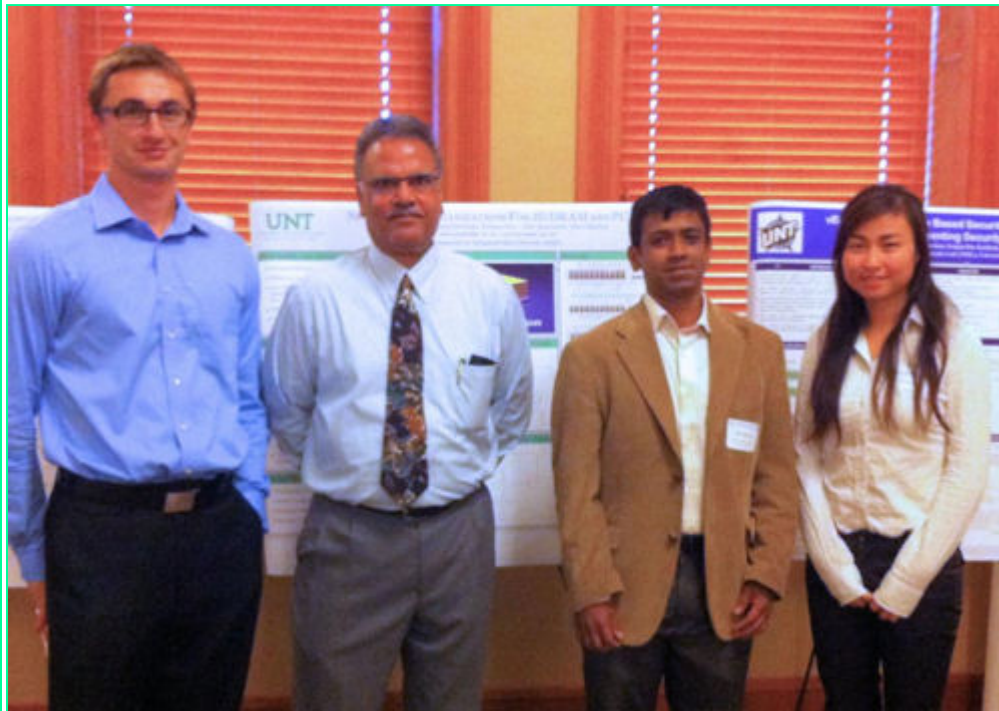
In last several months the following papers have been published/accepted from NSDL members. A selection of those is listed here. A significant paper is the IEEE Transaction paper co-authored by student Oleg Garitselov.

- O. Garitselov, S. P. Mohanty, and E. Kougianos, "A Comparative Study of Metamodels for Fast and Accurate Simulation of Nano-CMOS Circuits", *IEEE Transactions on Semiconductor Manufacturing (TSM)*, Accepted on October 23, 2011.
- O. Okobiah, S. P. Mohanty, E. Kougianos, and O. Garitselov, "Kriging-Assisted Ultra-Fast Simulated-Annealing Optimization of a Clamped Bitline Sense Amplifier", in *Proceedings of the 25th IEEE International Conference on VLSI Design (VLSID)*, pp. accepted on 2011-10-12, 2012 (blind review, 71 papers accepted out of 223 submissions, acceptance rate — 31.8%).
- O. Garitselov, S. P. Mohanty, and E. Kougianos, "Fast-Accurate Non-Polynomial Metamodeling for nano-CMOS PLL Design Optimization", in *Proceedings of the 25th IEEE International Conference on VLSI Design (VLSID)*, pp. accepted on October 12, 2011, 2012 (blind review, 71 papers accepted out of 223 submissions, acceptance rate -- 31.8%).
- S. Banerjee, J. Mathew, D. K. Pradhan, B. B. Bhattacharya, and S. P. Mohanty, "A Routing-Aware ILS Design Technique", *IEEE Transaction on VLSI Systems*

Oleg will be traveling to VLSI design conference in 2012 to present the two papers accepted there.

Net-Centric Software & Systems Center News

At the IUCRC meeting: (L-R) Tomislav Janjusic; CSE graduate student; Dr. Krishna Kavi, IUCRC Director; Dr. Mahadevan Gomathisankaran, CSE Assistant Professor; and Yiwen Wan, CSE Graduate student.
More pictures here.

The National Science Foundation Net-Centric Software and Systems Industry/University Cooperative Research Center (**Net-Centric IUCRC**) met on October 18-19, 2011 in Tempe, Arizona, on the campus of Arizona State University. The meeting was a great success. The Net-Centric IUCRC organizes two meeting per year. At these semi-annual meetings, faculty and students make presentations on their current research projects that are funded by the industrial members of the center. New project proposals are reviewed for funding by the Industrial Advisory Board of the center.

At present the IUCRC includes 17 industrial members and 4 universities (with UNT as the lead university). Missouri University of Science and Technology (formerly known as the University of Missouri at Rolla) will be joining the center in Spring 2012 and will bring 4 additional industrial members to the center.

In addition to normal presentations, the October meeting organized an open house with nearly 70 poster presentations by faculty and students from Arizona State University, Southern Methodist University, UNT and UTD. Nearly 35 guests representing various