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Sent:	Thursday, November 17, 2011 4:43 PM
To:	CSEInstructors
Subject:	November 2011 CSE Student Email Newsletter

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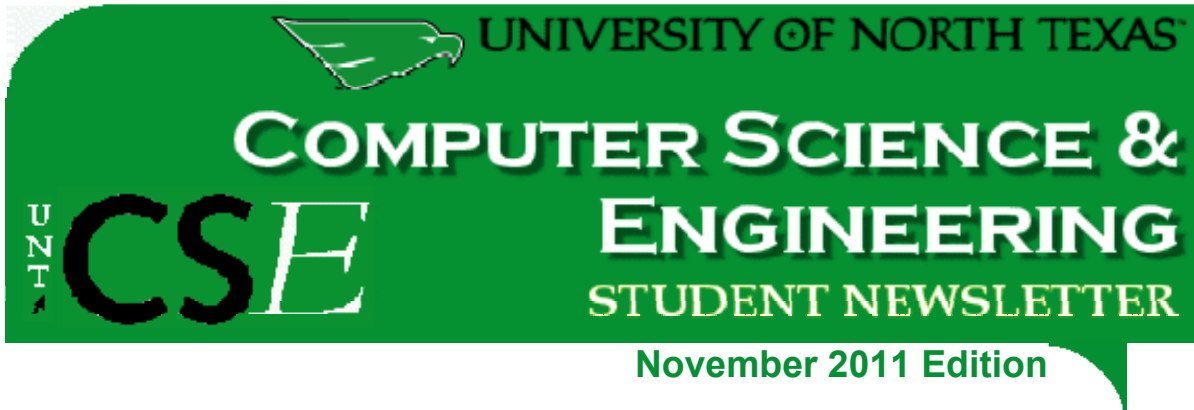
UNIVERSITY OF NORTH TEXAS

COMPUTER SCIENCE & ENGINEERING

CSE

STUDENT NEWSLETTER

November 2011 Edition

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Robocamp receives $15,000 for 2010 Tech Titan Award
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College of Engineering News
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UNT IEEE hosts Guest Speaker from L3 Communications

Greetings from the CSE Chair

Dear CSE Students,

The end of the Fall 2011 semester is quickly approaching so I wanted to share the news from this semester with you. The Metroplex Technology Business Council came to Discovery Park recently and presented us with a check for our Summer Robocamp for Girls. 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.

Congratulations to the CSE students who will be graduating in December. You can read below about the graduate students who defended their dissertations and theses this semester. If you are an undergraduate student graduating in December, you will receive a letter of congratulations from me along with instructions for taking our online Graduating Senior Survey. I hope you will complete this survey because your comments help to improve our undergraduate program. I would also like to take this opportunity to encourage you to consider graduate study either at UNT or elsewhere. If you enjoyed studying computer science and engineering as an undergraduate, you'll enjoy graduate school. If you have any questions about this, please let me know.

If you are a continuing student in our undergraduate program, you can also help improve our CSE courses by completing the exit surveys in each of your CSE classes. The Undergraduate Committee, led by our Undergraduate Coordinator Dr. Robert Akl, reviews these exit surveys every semester. We appreciate your feedback because it helps to improve our CSE undergraduate program.

Good luck on your final projects and exams. Have a good break at the end of the semester and I hope you are looking forward to your CSE classes in Spring 2012.

Barrett Bryant
Professor and Chair

# Department of Computer Science and Engineering News

Robocamp receives $15,000 for 2010 Tech Titan Award

attended the conference in Chicago.

Jason Powell presented a paper titled "Towards Reducing Taxicab Cruising Time Using Spatio-Temporal Profitability Maps" in Minneapolis at the 12th International Symposium on Spatial and Temporal Databases in August 2011. The paper was co-authored by Jason Powell, Yan Huang, Favyen Bastani, and Minhe Ji (Eastern China Normal University).

Dr. Yan Huang visited Microsoft Research Asia (MSRA) in Beijing for three months in the Summer of 2011. During her visit, she formed research collaborations with several distinguished researchers at MSRA and those visiting MSRA. She is currently visiting Fudan University in Shanghai China for Fall 2011. Fudan is one of the top ranked universities in China, featuring very talented faculties and students. She attended the National Database Conference of China on October 21-23 hosted by Fudan and gave an invited talk titled "Towards Smarter and Greener Transportation Systems". Her 11 year old son believes MSRA is a better place than Fudan mainly because of the Kinect and friends he found in the open area and fresh fruits served daily at 3:00 p.m. at MSRA. He is still trying to get used to the amount of homework at the international school he is attending in Shanghai. ↑

NanoSystem Design Laboratory Acquires State-of-the-Art VLSI Instruments
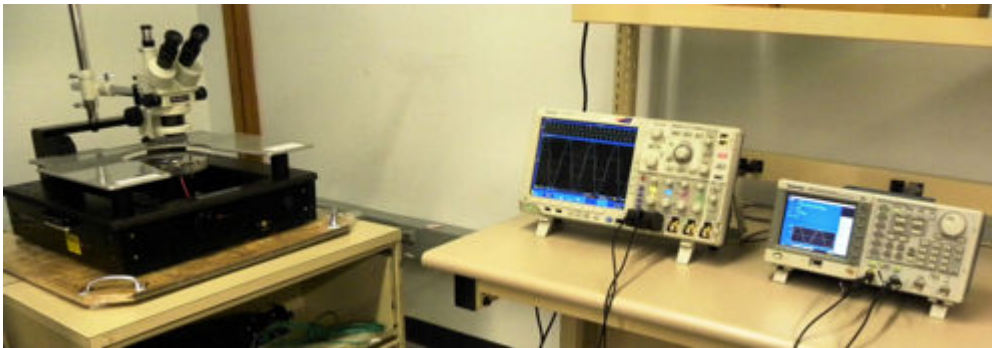
NanoSystem Design Laboratory (NSDL) in the CSE Department has received state-of-the-art equipment for VLSI design and characterization. An advanced probing station was acquired for facilitating wafer characterization. A dual channel arbitrary function generator was obtained that can generate signals 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 (TVLSI)*, Vol. 19, No. 12, December 2011, pp. 2335--2338.

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

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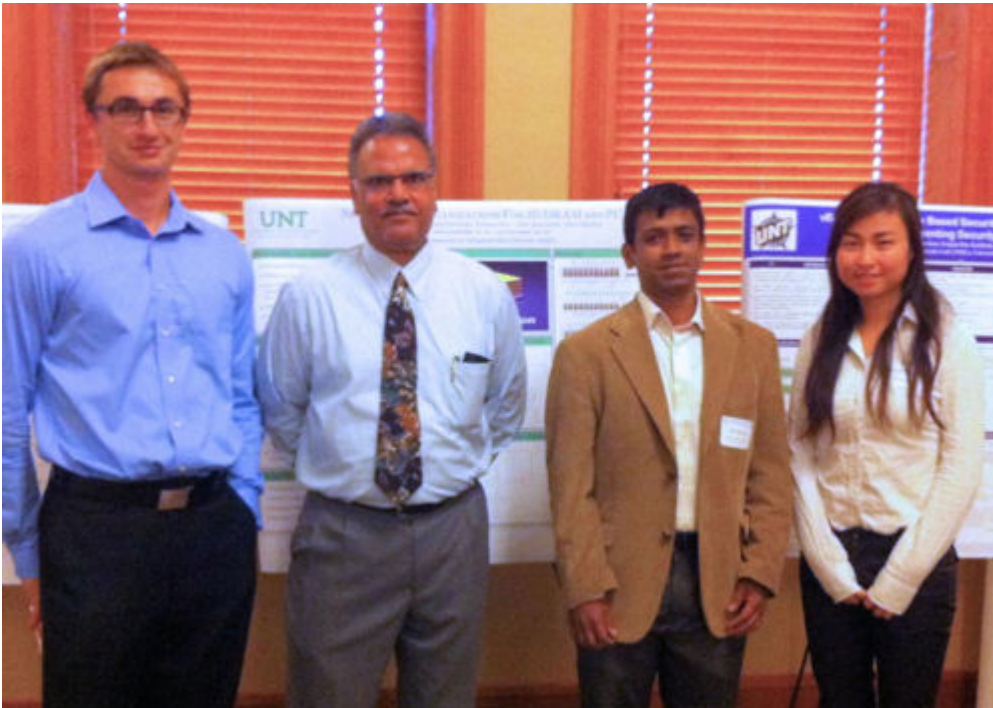
At the IUCRC meeting: (L-R) Tomislav Janjusic; CSE graduate student; Dr. Krishna Kavi, IUCRC Director; Dr. Mahadevan Gomathisankaran, CSE Assistant Professor; and Yiwen Wan, CSE Graduate student.
More pictures here.

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