

UNIVERSITY OF NORTH TEXAS

COMPUTER SCIENCE & ENGINEERING

ALUMNI NEWSLETTER



Greetings from the CSE Interim Chairman

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Dear CSE Alumni and Friends,

The Dean of the College of Engineering has appointed me interim chair for 2010-2011 so I will continue to serve the UNT Department of Computer Science and Engineering for a second year. A search committee for the new chair has been formed and a national search will begin soon. We welcome Dr. Song Fu, who joined our CSE Department as assistant professor this semester, and we congratulate Dr. Saraju Mohanty on his promotion to associate professor.

We are proud that our Robocamp received the Tech Titan Award of the Future from the Metroplex Technology Business Council. Congratulations to Robert Akl and David Keathly, co-directors of Robocamp, for creating this program and guiding it to success. CSE research labs have received several new grants and you can read about their news below.

We are proud of our CSE alumni and feature three of them in our Alumni Focus. I hope these alumni newsletters keep you informed about our CSE department. If there is a particular area that you are interested in and want to offer your expertise to our students, please contact us. We appreciate our alumni and look forward to your involvement with us. Thank you for your support of CSE and UNT.

Ian Parberry
Professor and Interim Chair

Department of Computer Science and Engineering News

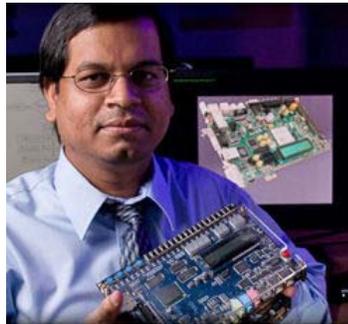
Robocamp wins Tech Titan Award

Jon Doran's first refereed journal publication appeared in the June 2010 issue of *IEEE Transactions on Computational Intelligence and AI in Games*. The paper, "**Controlled Procedural Terrain Generation Using Software Agents**," coauthored with Dr. Parberry, explores a controllable system that uses intelligent agents to generate terrain elevation height maps according to designer-defined constraints.

"**Gaming for a Living**" features CSE alumni in the Fall 2010 edition of The North Texan, a University of North Texas publication for alumni and friends. Chris Bream (2000), Art Griffith (2002), and Cesar Stastny (2004) talk about the importance of LARC. For other LARC alumni news, go to <http://larc.unt.edu/>.

Dr. Mohanty's Nanoscale Energy-Efficient Research from NSDL Gets Recognition

Nanoscale Energy-Efficient circuits and system research at the **NanoSystem Design Laboratory (NSDL, <http://nsdl.cse.unt.edu/>)** under the leadership of **Dr. Saraju Mohanty** has received significant recognition by being featured on the main website of the University of North Texas in July 2010. As a demonstration of international recognition, Dr. Mohanty was invited to present his research at University of Calgary in Canada during the summer.



Dr. Mohanty received multiple grants to support UNT's research, education, and student recruitment activities. One NSF (National Science Foundation) grant of \$180,000 titled "Introduction of Nanoelectronics Courses in Undergraduate Computer Science and Computer Engineering Curricula" spanning over 2010-2013 supports nanoelectronics educational research. It will be used in the nanoelectronics education methodologies and curriculum. Eventually two new courses will be taught at UNT so that Texas prepares future professionals in this advanced area of nanoscience and nanoengineering.

In order to increase visibility of UNT in the international arena and to provide UNT a continuous platform for quality student recruitment, Dr. Mohanty has established a new symposium, International Symposium of Electronic system Design (ISED). The first of its series starts in Bhubaneswar in India. NSF has awarded a grant of \$10,000 to support the symposium through invited speaker travel and students' participation fellowships.

NSDL members have published several papers recently. A paper titled "ULS: A Dual-V_{th}/High-κ Nano-CMOS Universal Level Shifter for System-Level Power Management" was published in the *Special Issue on Design Techniques for Energy Harvesting of ACM Journal on Emerging Technologies in Computing Systems (JETC)* in June 2010. A conference publication titled "A DOE-ILP Assisted Conjugate-Gradient Approach for Power and Stability Optimization in High-κ/Metal-Gate SRAM" was presented by Ph.D. candidate Garima Thakral at the *20th ACM/IEEE Great Lakes Symposium on VLSI (GLSVLSI)*. At the same symposium, Dr. Mohanty was also invited to chair a session.

Net-Centric IUCRC to meet in October

The Net-Centric Software and Systems Industry/University Cooperative Research Center (**Net-Centric IUCRC**) is pleased to announce the next IUCRC Industrial Advisory Board meeting that will be held on October 21, 2010. NSF program managers will be on hand to explain the concept of IUCRC. There will be short presentations on potential new projects and progress reports on currently funded projects. There will be opportunities to network with academic as well as current industrial members. IUCRC members will also have access to presentations of results on currently funded research projects. Faculty and students working on these projects will be on hand with project demos.



The October 21, 2010 IAB meeting will be held at Great Wolf Lodge in Grapevine, TX.