



COLLOQUIUM

School of Computing and Software Engineering (CSE)

Subjects: Computing Education with Technologies Leading to Systems Research
Speaker: Dr. Chia-Tien Dan Lo
Date: Monday, March 16th, 2009
Time: 10:10 AM – 11:10 AM
Place: J-131

Abstract:

In this talk, Dr. Lo will summarize his teaching methodologies and achievements, introduce his research thrusts, and conclude the talk by how to seamlessly integrate teaching to research, and by outlining his future career goals. His main teaching philosophy is summarized as follows. First, he advocates to effectively stimulate students in logical thinking to scrutinize problems by carefully designing teaching materials to achieve this goal. He chooses problems from daily life scenarios to attract students' attention, to exercise important theoretical concepts conveyed, and to be extended for further useful applications. Second, he designs and implements curriculum by bringing in latest technologies that helps students smoothen the transition from academia to industry. Industry standard tools used in his teaching will be illustrated. Third, he is enthusiastic to help students in all aspects in additional to teaching. He encourages learning by making himself available most of the time for students via office hours, email and class web discussion forums, especially during project weeks. Fourth, he adapts to classroom dynamics should a related topic happen to interest students most. This extra time is worth spending because students will learn the interested topic happily and efficiently. Dr. Lo's research interests include information security, high performance computing, computer systems/architectures, reconfigurable computing, low power embedded systems, and run-time systems. Currently, he is working on QR decomposition on FPGA-based architectures, and performance enhancement on network intrusion detection systems. He will introduce his research projects with an emphasis on his recent research results on network intrusion detection, and how to integrate his teaching into his research projects.

Biographical Sketch

Chia-Tien Dan Lo received the Ph.D. degree in the Department of Computer Science from Illinois Institute of Technology (IIT), Chicago, in December 2001. Prior to IIT, Dr. Lo received the M.S. degree in Electrical Engineering from National Taiwan University, Taiwan and the B.S. degree in Applied Mathematics from National Chung-Hsing University, Taiwan, in 1992 and 1990, respectively. Before coming to the States, he worked on computer-aided verification for real-time concurrent systems at Institute of Information Science, Academia Sinica, Taiwan (1992-1994). In 1995, he founded a computer system company in Taiwan specialized in embedded system design, small business networking services and database applications. At the spring of 1998, he received the Dean's scholarship and joined the computer system group at IIT. One year after, he started his teaching career in the computer science discipline. In 2002, he joined the Department of Computer Science at University of Texas at San Antonio, as an assistant professor till now. His research interests include information security, high performance computing, computer systems/architectures, reconfigurable computing, low power embedded systems, and run-time systems. His current research thrusts are Data Intensive Parallel Computing, Mobile Computing, Security, Dynamic Memory Management, Reconfigurable Computing, and Low-power Embedded Systems.

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