

## STEVENS INSTITUTE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING

Wednesday, October 12, 2011 Carnegie 315, 1:30 pm

## Robotics Research at the City College of New York

## **Professor Jizhong Xiao**

Dept of Electrical Engineering The City College, The City University of New York (CUNY City College)

This talk will present the recent progress in our research effort to advance mobile robots to 3D, including: autonomous navigation and 3D SLAM (simultaneous localization and mapping) of micro aerial vehicles (MAVs), development of novel wall-climbing robots, system-on-programmable-chip (SoPC) solution to on-board processing for ultra-small robots, 3D mapping and coordination of a heterogeneous multi-robot teams.

**Professor Jizhong Xiao** received his Ph.D. degree from Michigan State University in 2002; Master of Engineering degree from Nanyang Technological University, Singapore, and MS, BS degrees from East China Institute of Technology in 1999, 1993, and 1990, respectively. He joined the EE Dept. of the City College of New York (CCNY, CUNY City College) in 2002 and currently is an associate professor and the EE Ph.D. Program advisor at CUNY City College, as well as a doctoral faculty member of the Ph.D. program in Computer Sciences at the Graduate Center of the City University of New York (CUNY Graduate Center). Dr. Xiao started the robotics research program at the City College and is the founding director of CCNY Robotics Lab (website: http://robotics.ccny.cuny.edu ) and the Center for Perceptual Robotics, Intelligent Sensors and Machines (PRISM Center). His research interests include robotics and control, cyber-physical systems, autonomous navigation and 3D SLAM, real-time and embedded computing, digital signal processing, assistive technology, multi-agent systems and swarm robotics. He is a recipient of National Science Foundation (NSF) CAREER award in 2007 and the CCNY Outstanding Mentor Award in 2011. Dr. Xiao has served the robotics community in various roles of many robotics conferences, and served as guest editor and reviewer for major robotics journals and conferences. He is a senior member of IEEE.

## Part of the Stevens Robotics & Controls Seminar Series

For more information, please contact Prof. Cappelleri at David.Cappelleri@stevens.edu or 201-216-5072