



SEMINAR ANNOUNCEMENT

Current Research at the Center for Assistive, Rehabilitation & Robotics Technologies

Date: 22 June 2010, Time: 14:00-15:00

Place: EE Department Yorgo Istefanopulos Seminar Room

Rajiv V. Dubey, PhD

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Director, Center for Assistive, Rehabilitation & Robotics Technologies
University of South Florida



Abstract:

The Center for Assistive, Rehabilitation & Robotics Technologies at the University of South Florida is a multidisciplinary center that integrates education, research and service for the advancement of assistive and rehabilitation robotics technologies. Researchers from various departments and colleges at the university including the College of Engineering, the School of Physical Therapy and Rehabilitation Sciences, the College of the Arts, and the College of Behavioral and Community Sciences collaborate on various projects. The center is involved in the development, evaluation, dissemination and commercialization of ground breaking assistive and rehabilitation technologies. Research areas of the center include rehabilitation robotics, advanced prosthetics, rehabilitation therapies, and adaptive driving and recreation systems. This talk will focus on a) upper extremity prosthetics testing and evaluation, and b) design and control of smart wheel chair mounted robot arms.

Biographical Sketch:

Professor Rajiv V. Dubey is a Professor and Chair of the Department of Mechanical Engineering in the College of Engineering and Director of the Center for Assistive, Rehabilitation & Robotics Technologies (CARRT) at the University of South Florida. He received his Bachelor's degree in Mechanical Engineering from the Indian Institute of Technology, Bombay, and Master's and Doctoral degrees in Mechanical Engineering from Clemson University. Dr. Dubey's research interests include design, simulation and testing of assistive, rehabilitation and robotic devices for persons with disabilities; robotic/telerobotic applications in healthcare, space and nuclear waste management. He has served on several review panels for the National Science Foundation and was the Associate Editor of the IEEE Transactions on Robotics and Automation from 1989 to 1997. He has over 150 publications in prestigious conferences and journals. He has been distinguished by awards that include Favorite Professor in the College of Engineering Award from the Student Teacher Education Association, the University of Tennessee, Knoxville, 1987; National Science Foundation Research Initiation Award, July 1989; B. Ray Thompsan Professorship Award, University of Tennessee, 1998. He received USF President's award for Excellence in Research in 2003. He is a Fellow of the American Society of Mechanical Engineers.