SENSORY CONTRIBUTIONS TO HUMAN MOVEMENT CONTROL AND LEARNING IN HEALTH AND DISEASE

Featuring Dr. Mukul Mukherjee
University of Nebraska at Omaha

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Parking Available in Lot T

ABOUT DR. Mukherjee
Dr. Mukul Mukherjee is an Assistant Professor in the Department of Biomechanics at UNO. He received his professional degree in Physical Therapy from Delhi University (India) and his PhD from the University of Kansas Medical Center in Kansas City. He has received funding from the AHA for research in rehabilitation robotics in chronic stroke survivors, from NASA for investigating sensory augmentation of gait adaptation and is currently leading an NIH-funded research study investigating the effects of virtual reality on gait variability after stroke. His major research objective is the exploration of sensory augmentation methodologies for enhancing motor learning.

LEARNING OBJECTIVES
The presentation will involve an introduction to the concepts related to sensory contributions to human movement control, a review of the different sensory stimulation techniques that are being investigated by Dr. Mukherjee’s team in the Biomechanics Research Building and a discussion of the results of sensory augmentation methods for improving gait coordination in pathology and novel environments.

The presenter, Mukul Mukherjee, Ph.D., and the planning committee, Nick Stergiou, Ph.D., Jeffrey Kaipust, M.S., Angela Collins, B.S., and Jackie Farley, CPP have no financial conflict of interest to disclose.

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