

Department of
**Health
Administration
and Policy**
and



CENTER FOR HEALTH POLICY RESEARCH & ETHICS
GEORGE MASON UNIVERSITY

SPRING 2019

Health Policy Seminar Series

Transdisciplinary Research on Chronic Disability

Siddhartha Sikdar, PhD

Professor, Volgenau School of Engineering
George Mason University



Wednesday, February 20, 2019

12:00 – 1:30pm, Merten Hall, Room 1202

Light lunch and refreshments will be provided.

Abstract

GMU's Center for Adaptive Systems of Brain-Body Interactions (CASBBI) seeks to improve quality of life and function for people with chronic disability through research that brings together experts from neuroscience, physics, engineering, psychology, rehabilitation, and health administration and policy. The Center's projects include the use of imaging to investigate brain-body interactions in a number of conditions that affect public health, such as chronic pain, stroke, spinal cord injury, and amputation. Dr. Sikdar's group is investigating the novel use of wearable ultrasound sensors to detect muscle activity and control devices such as multi-articulated prosthetic hands and exoskeletons. In this presentation, Dr. Sikdar will discuss ongoing CASBBI projects, and future research on technology-empowered communities of recovery for substance use disorders.

Biosketch

Dr. Sikdar is a Professor in the Department of Bioengineering at GMU and Director of the Center for Adaptive Systems of Brain-Body Interactions (CASBBI). He obtained his PhD in Electrical Engineering from the University of Washington in 2005 and received a postdoctoral fellowship award from the American Heart Association. Dr. Sikdar was a recipient of the NSF CAREER Award, the Volgenau School of Engineering Rising Star Award, Mason's Emerging Researcher/Scholar/Creator Award and was nominated for the Rising Star Faculty Award of the State Council of Higher Education in Virginia. His research is funded by the NSF, NIH, DoD and the VA.

For more information:
703-993-1929 | hap@gmu.edu
hap.gmu.edu | www.facebook.com/hapgmu



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