Department of Biomedical Engineering

Faculty of Engineering

Mahidol University

Wisdom of the Land

EGBE 692 Research Seminar for Biomedical Engineering I
EGBE 690 Biomedical Engineering Seminar I

Date: September 2, 2014 Time: 10AM-11AM
Department of Biomedical Engineering
Mahidol University (Room 6373)

Assoc.Prof.Dr. Panadda Marayong

Department of Mechanical and Aerospace Engineering ,
California State University, Long Beach

"Haptics Research in Assistive Technology and Rehabilitation"

As a sub-field of human-robot collaborative systems, haptic research involves development of senses of touch in robotic devices. Haptic systems provide the human operator with a realistic and immersive experience in virtual and teleoperated environments through a display of force and/or tactile feedback. Development of haptic systems involves knowledge in robotics, human psychophysics, and engineering psychology. It offers a wide range of applications including biomedical technology, consumer products, rehabilitation, and remote exploration. The presentation will give an overview of the field and its applications in biomedical researches, specifically in assistive technology and rehabilitation. The presentation will also highlight various collaborative projects related to the field that are occurring at California State University, Long Beach.