

CSDS 500 and ECSE 500 Spring 2021 Colloquium

11:30AM to 12:30PM
Thursday, April 1, 2021

Zoom Webinar ID: 998 2943 6376 / Passcode: 357363

Introduction to The Advanced Platform Technology Center: Innovating and Translating Rehabilitation and Medical Technologies

Abstract: Since 2005, the Center for Advanced Platform Technology, a partnership between the Rehabilitation R&D Service of the US Department of Veterans Affairs and Case Western Reserve University, has been capitalizing on advances in the fields of microsystem design, microfabrication, macromolecular engineering, mechanics and robotics, remote and wireless sensing, and neural engineering to explore new concepts for diagnostic, restorative or assistive devices to address the unmet needs of Veterans and all disabled Americans with sensorimotor dysfunction, limb loss or cognitive deficits. Our primary research focus areas include advanced neurally-integrated limb prosthetic and orthotic devices, health monitoring and maintenance, neural interfaces, and activity-dependent neurorehabilitation techniques. This seminar will summarize the structure and function of the APT Center, give examples of the research projects it facilitates, outline the services it makes available to the investigative teams associated with it, and describe potential areas of collaboration.



Ronald J. Triolo, PhD
Case Western Reserve University

Bio: Dr. Triolo is a Tenured Full Professor of Biomedical Engineering at Case Western Reserve University and a Senior Research Career Scientist with the Rehabilitation Research & Development Service of the US Department of Veterans Affairs. He is the Executive Director of the Advanced Platform Technology Center where he oversees the design, prototyping and production of novel medical devices and rehabilitation, assistive or restorative technologies for individuals with sensorimotor impairments or limb loss. He also directs the Motion Study Laboratory of the Louis Stokes Cleveland Veterans Affairs Medical Center where he pursues research in the development and clinical application of new neuroprostheses and peripheral nerve interfaces, biomechanics and the control of human movement, and quantitative assessment of rehabilitation outcomes. Dr. Triolo has authored over 150 peer-reviewed publications, textbook chapters, generated seven US and international patents, and mentored approximately 40 graduate and medical students or post-doctoral trainees. He currently leads independent research programs funded the VA, NIH, DoD and other federal and private agencies to prevent or recover from stumbles and falls, restore or enhance upright and seated mobility, posture, and balance, and universal access for individuals with neuro-musculo-skeletal disorders. Dr. Triolo was inducted into the American Institute for Medical and Biological Engineering, received the Paul B. Magnuson Award for outstanding achievement in Rehabilitation Research and Development from the US Department of Veterans Affairs, the Disabled American Veterans Outstanding Veterans Health Administration Employee of 2020 (Honorable Mention), and the Maurice Saltzman Award for Clinical/Academic Excellence from the Mount Sinai Foundation.

This is to certify that _____ attended this seminar. Certified by _____.
Certificates of attendance and other evidence of CPD activity should be retained by the attendee for auditing purposes.



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