

# SEMINAR



## Robotics Applications in Rehabilitation and Assistive Technologies

Redwan Alqasemi, Ph.D.

**Date and Time:** 16th June 2020, 13:00

**Place:** Virtual Event (Zoom)

Seminar is free, but we would appreciate if you register at <http://bit.ly/CARRT-ETF>

**Abstract:** People with physical disabilities may depend on family members or health caregivers to assist them in their daily needs. Providing technology solutions may assist them to gain some independence to perform their activities of daily living (ADL). This seminar will discuss some of the robotics technology solutions developed at the Center for Assistive, Rehabilitation and Robotics Technologies (CARRT) that can provide assistance and rehabilitation and give the user the ability to perform tasks that are otherwise difficult or impossible to do. Some of these technologies include a wheelchair-mounted robotic arm (WMRA), remotely teleoperated robots, brain-controlled robots, sensory and vision-based intelligence, and user interfaces.



**Speaker's Bio:** Dr. Redwan Alqasemi is a Research Professor at the University of South Florida, and a lead researcher at the Center for Assistive, Rehabilitation and Robotics Technologies (CARRT) in Tampa, Florida, USA. His research interests include rehabilitation robotics and assistive technologies, human-robot interaction and controls, virtual reality simulation, haptic interfaces, and brain-computer interfaces. Dr. Alqasemi has published more than 150 technical papers in national and international journals and conferences, holds two full patents and eight provisional patents, he is a member of the National Academy of Inventors (NAI), and he is a Senior member of IEEE Society. Dr. Alqasemi has recently been awarded the Fulbright U.S. Scholar award to conduct research and teaching activities in BiH and Europe/Eurasia region.