



Department of Biomedical Engineering
Graduate Seminar

Date
Friday, January 31st

Location
Central King Building (CKB 303)

Time
11:45 AM



Kunal Mankodiya, PhD

Associate Professor

Director of Wearable Biosensing Lab

Department of Electrical, Computer, and Biomedical Engineering

University of Rhode Island

Subject-Turning Smart Wearables into Medical Devices to Support Digital Health and Telemedicine

Abstract: Dr. Kunal Mankodiya will present Wearable Internet-of-Things, a unique framework developed in his Wearable Biosensing Lab, offering human-centered interconnections with wearable sensors, smart textiles and clinically-reliable data analytics—key elements for the future success of digital health and telemedicine. He will demonstrate some of his ongoing projects (funded by NSF) involving smart textile medical devices that are targeted to enhance the interventions of Parkinson’s disease remotely via telemedicine. Since 2012, he has developed a number of smartwatch-based health technologies to support patients with medical conditions such as PTSD and peripheral arterial disease. He will also touch upon his recent NIH-funded mHealth technology with an objective to support the dementia care. His talk will provide a glimpse of his international collaboration on smart prosthetics with Colombia. He will share lessons learned from his journey of developing and validating medical device technologies. Lastly, he will talk briefly about his student-centered activities, including newly-developed courses and hack-a-thons with an aim to nurture entrepreneurial thinking in the intersection of clinical interventions and medical device technologies.

Light refreshments will be served.