

# Soft Robotics for Biomedical applications

**Emir Vela, Ph.D.**

*MicroBiorobotics Lab  
Dpto. de Ingeniería de la Energía y Mecánica  
Universidad de Ingeniería y Tecnología, Lima, Perú*

## **Abstract**

In this talk, I will discuss Soft Robotic systems which are based on soft, flexible and deformable materials to create robotic devices capable of better integration and interaction with the human body; they can be comfortable, conformable, lightweight and low cost unlike rigid devices. For instance, we can develop applications such as rehabilitation, assistance and human augmentation. I will present some projects that have been carried out at UTEC in this fascinating field.