

# Smart Architectures for Implantable Wireless Pulse Generators for Gastric Disorder Management:

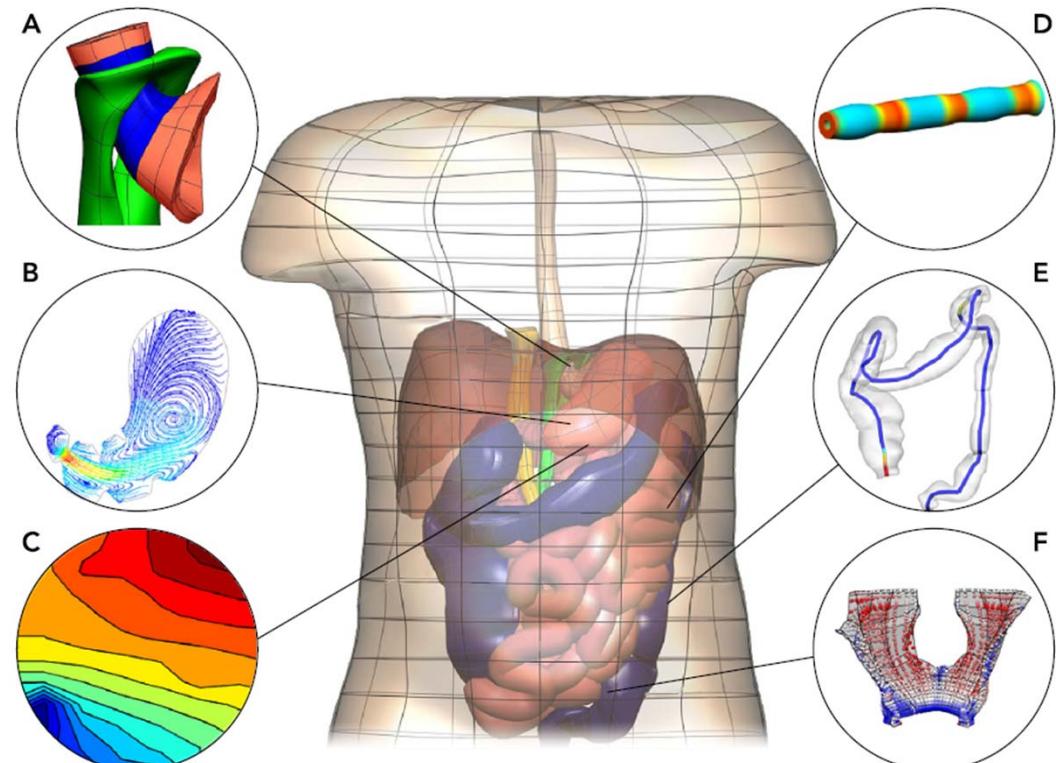
## A CPS Approach



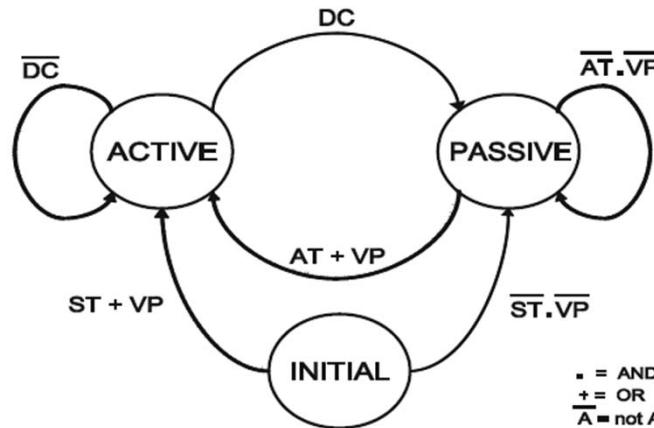
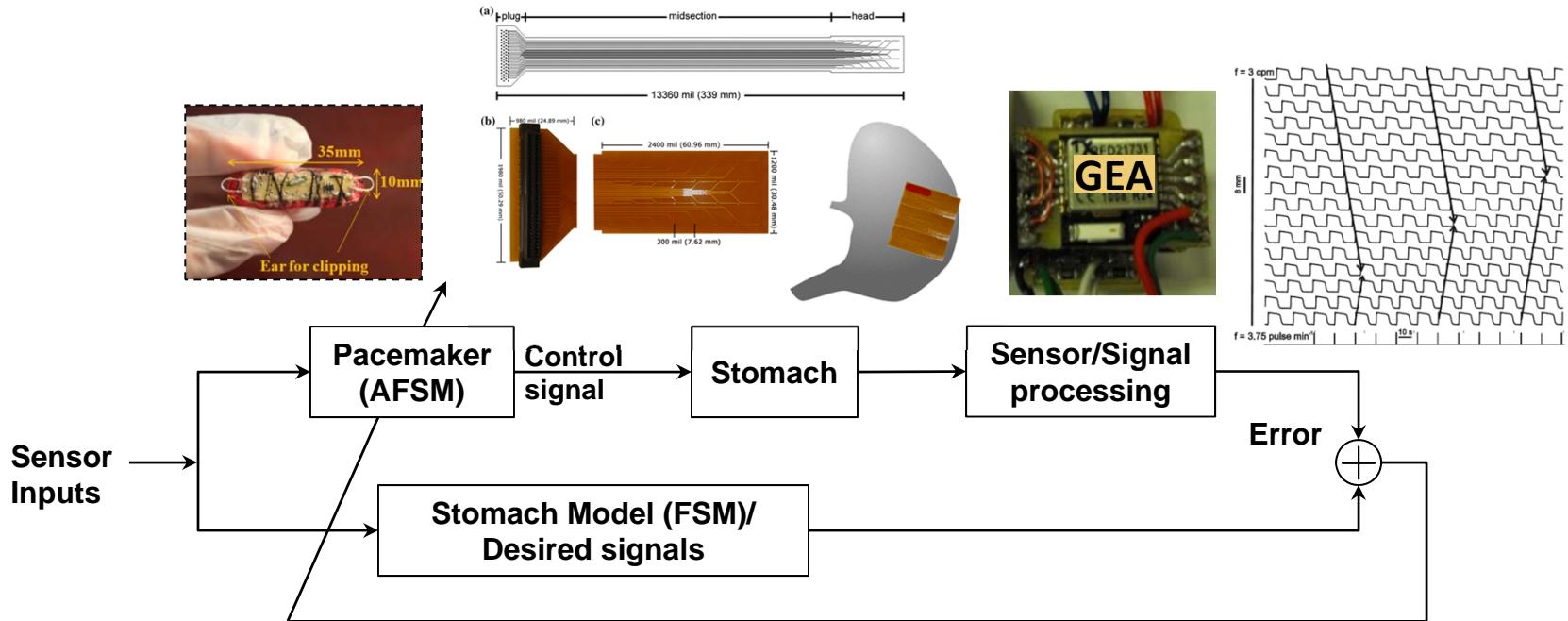
Farajidavar, Cheng, Du, Ghovanloo, Shoureshi

### Virtual stomach Model (VSM)

- Whole-organ
- ICC Network
- Electrophysiological



# Smart Architectures: A CPS Approach



A Finite State Machine (FSM) to model ICC

$\cdot$  = AND  
 $+$  = OR  
 $\overline{A}$  = not A

# CPS to Connect the Dots

