**Homework #1**

(ECE 493/593 Tele-Healthcare Engineering)

**(Due Day: Thursday, Sep 6, 2012)**

Q1. What are the purposes of using medical signal processing?

Q2. How many different telecommunication technologies can be used for tele-healthcare? List 8 methods.

Q3. How many tasks can we achieve when using machine learning? Provide one example for each task.

Q4. Read the paper entitled as "Power- and Delay-Awareness of Health Telemonitoring Services: The MobiHealth System Case Study," and answer the following questions on mobile healthcare:

(Try to use your own words to rephrase everything. Do not copy & paste.)

- What is the proposed mobile health system architecture? (provide details on BAN - Body Area Network)

- What are the QoS requirements for such a system?

- How do the authors measure the power consumption? List some key steps.