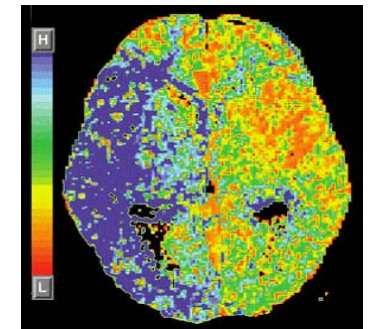
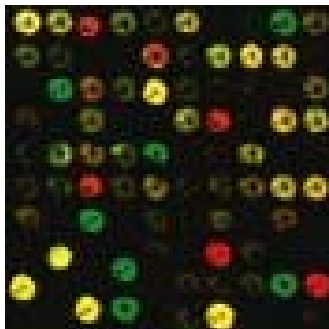
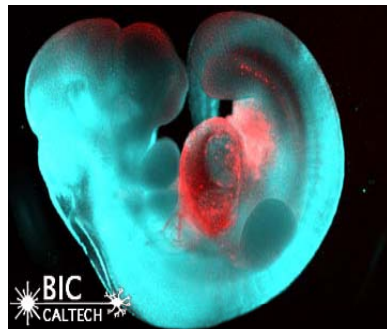
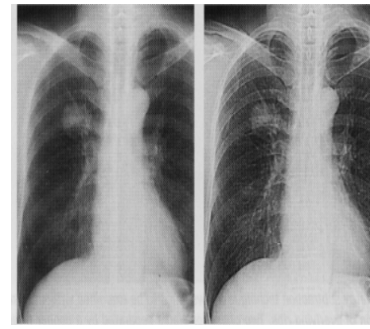


# ELEN 410

## Introduction to Medical Imaging



**Jim Ji**  
**Department of Electrical Engineering**  
**Texas A&M University**

# Highlights

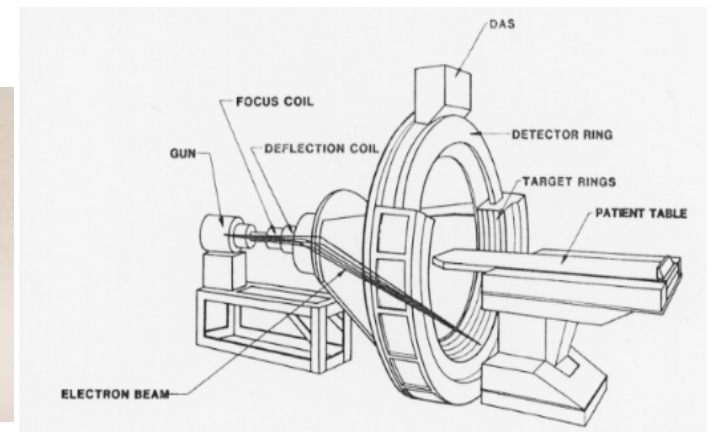
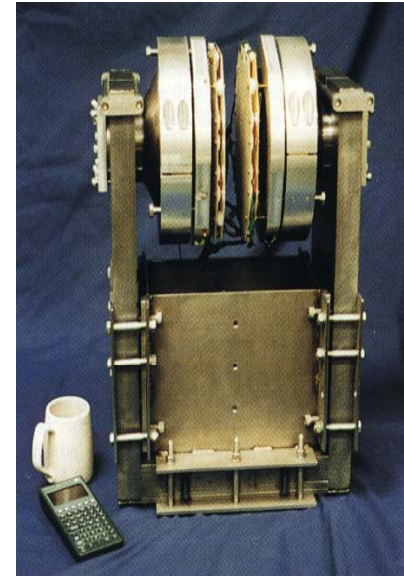
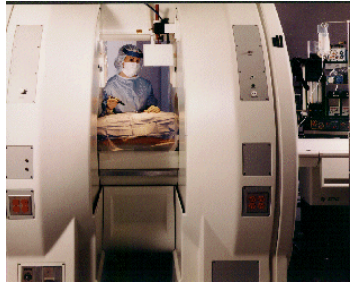
- **Three-credit undergraduate course listed under:**
  - **biomedical imaging and genomic signal processing**
  - **communication, control and signal processing**
  - **electrophysics**
- **MWF 10:20AM-11:10AM ZACH 223C**
- **Website: <http://www.ece.tamu.edu/~jimji/teaching-main.htm>**
- **Jim Ji , 236B WERC, E-mail: jimji@tamu.edu**
- **TA: Shuo Feng, 4:00-5:30PM Wednesday, 236C WERC**

# Topics

- **Modalities**

- magnetic resonance imaging (MRI)
- x-ray computer tomography (CT)
- ultrasound
- optical imaging
- nuclear medicine (PET)

- Focus on the **engineering principles and basic physics, and signal/image formation**
- **Examples in clinical applications**



The 21st century would be the biomedical century just as the 20th century had been the century of physics, electronics, and computers.

-- Elias Zerhouni, NIH Director

A career in radiologic technology offers a promising future, job stability and good salaries. As technology advances and the population ages, ....

The country needs a growing number of qualified professionals to provide medical imaging and radiation therapy.

-- Excerpt from monster.com

