Introduction

• **Echocardiography:**
  common diagnostic modality for assessing the **structure** and **function** of the heart
  – Inexpensive
  – Non-invasive
  – Widely used

• Imaging the heart in several different planes (**Views**)

• Consists of chronological order of video segments of views

• We focus on:
  Trans-Thoracic Echo (**TTE**)
Production Model of Echo

View 1

View 2

View 3
**Temporal Structure of Echo**

- Echocardiogram video is well structured in time
- Is consisted of conceptually well-defined units
Spatial Structure of Echo

- Well defined spatial structure in the different views
- Think of heart in each view as an object consisted of certain sub-parts (chambers)
- Spatial arrangement of sub-parts are unique to the view
- Different views have partial structural overlap