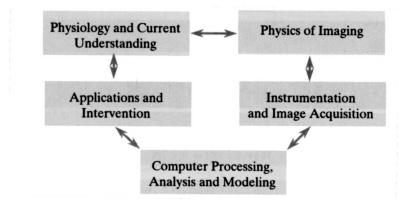
Medical Imaging – Introduction

Jan Kybic

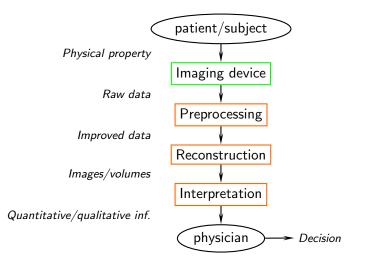
2018

Medical imaging: a collaborative paradigm

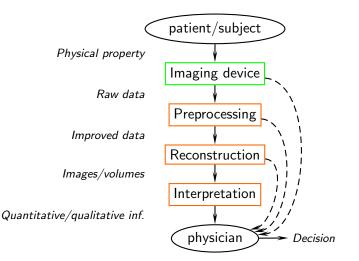


picture from Atam P. Dhawan: Medical Imaging

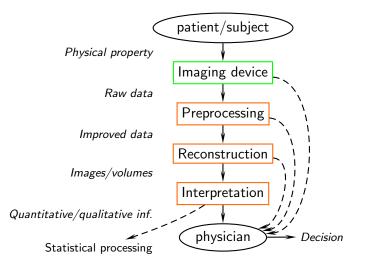
Medical imaging pipeline



Medical imaging pipeline



Medical imaging pipeline



What information do we need?

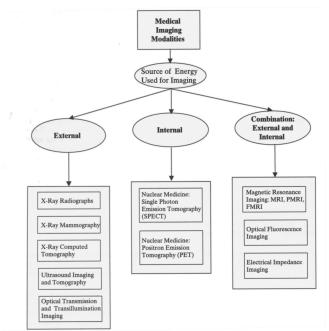
anatomical, physiological, functional

- What information do we need?
 - anatomical, physiological, functional
- What is the energy source?
 - external, internal, combined

- What information do we need?
 - anatomical, physiological, functional
- What is the energy source?
 - external, internal, combined
- How good is the image?
 - resolution, noise

- What information do we need?
 - anatomical, physiological, functional
- What is the energy source?
 - external, internal, combined
- How good is the image?
 - resolution, noise
- How much does it cost?

Energy source



Electromagnetic spectrum

