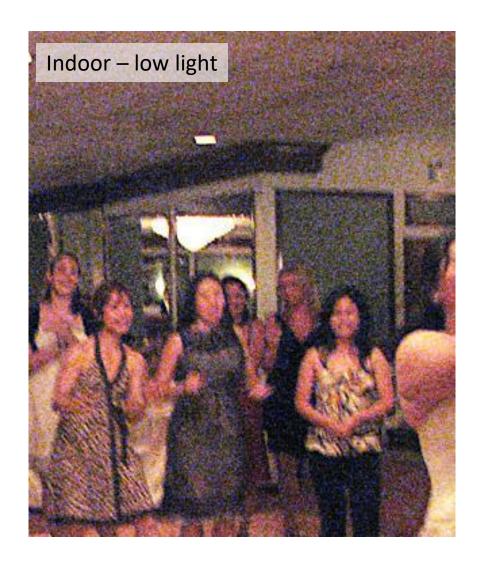
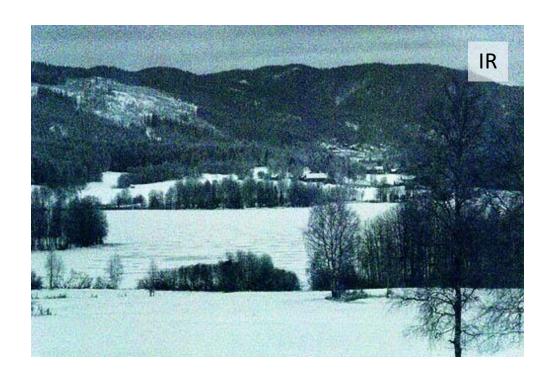
Estimation and removal of noise from Images

Noise

- Where does noise come from?
 - Sensor (e.g., thermal or electrical interference)
 - Environmental conditions (rain, snow etc.)
- Why do we want to denoise?
 - Visually unpleasant
 - Bad for compression
 - Bad for analysis

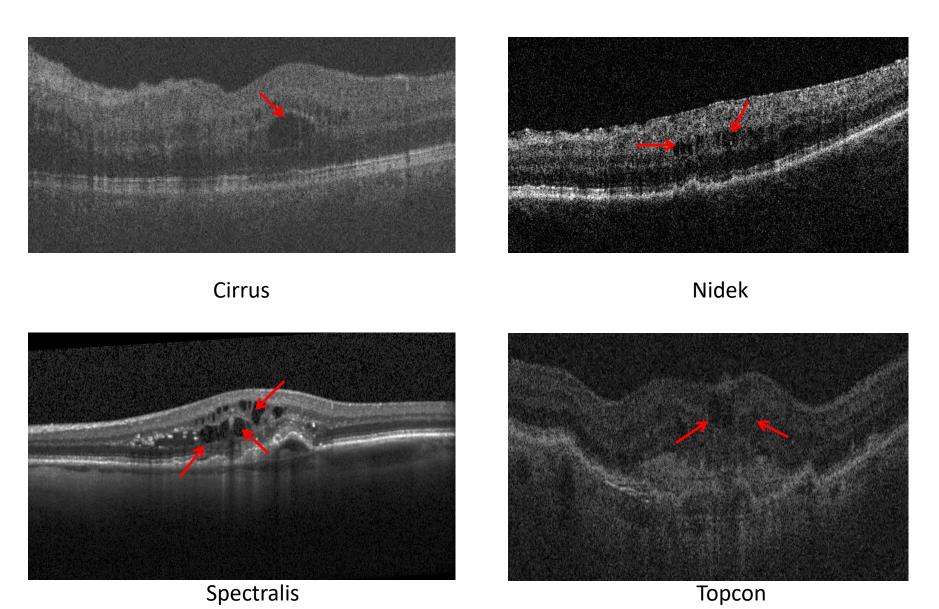




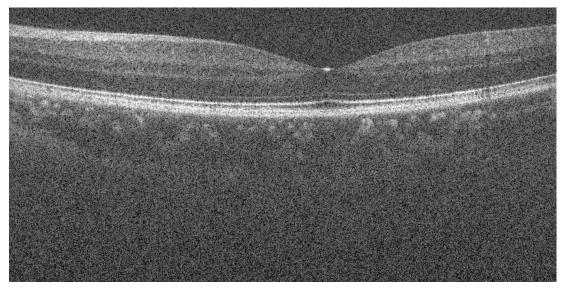


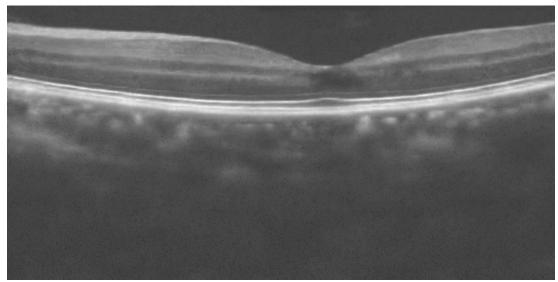


OCT images acquired with different machines



Arrows indicates the retinal cysts





OCT images : Before denoising

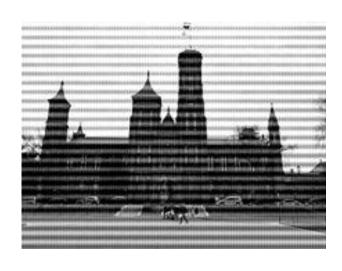
OCT images : After denoising



Rician



Salt & pepper



Periodic noise

How to measure the level of noise in an image?

