

IMAGE PROCESSING WORKSHOP

FEB 2018

SLIDE 5:

INTRODUCTION TO CASCADE OBJECT DETECTORS

OUTLINE

- WHY CASCADE DETECTORS?
- VIOLA JONES FACE DETECTION ALGORITHM (CASCADE DETECTOR)
 - HAAR FEATURES
 - INTEGRAL IMAGE
 - ADABOOST
 - CASCADING

WHY CASCADE DETECTORS?

- THEY CAN DETECT COMPLICATED OBJECTS INCREMENTALLY
- THEY ARE VERY FAST
 - THIS IS VERY IMPORTANT. WHY?
- THEY CAN BE USED WITH DIFFERENT SETS OF FEATURES
 - LBP
 - HAAR
 - HOG
- EACH IS GREAT FOR ITS OWN APPLICATION