

3D Object Recognition

Data
Tasks

Feature detection

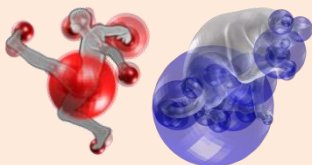
**Object
classification**

Pose estimation

Part I – 3D shape

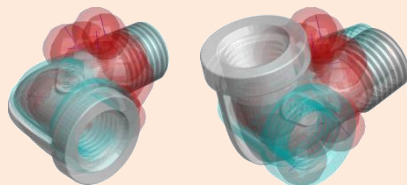
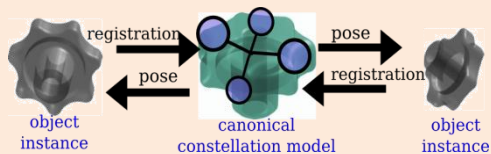
Chapter 2

Evaluation of 3D feature detectors



Chapter 3

Weakly-supervised 3D constellation model from unknown poses



Part II – Human action analysis

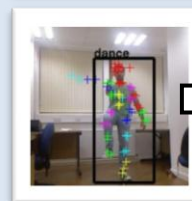
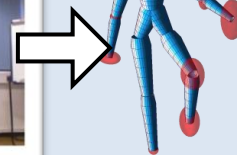
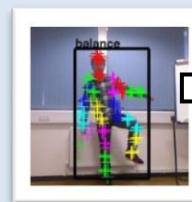
Chapter 4

Human action classification



Chapter 5

3D human body pose estimation



Chapter 6

3D hand pose estimation

