Social Robotics using NAO and Kinect
Demo

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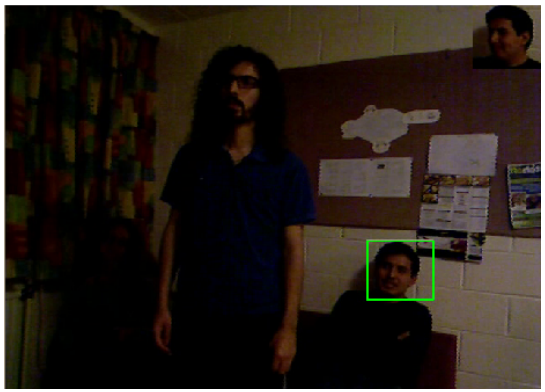
Our Project

Goal

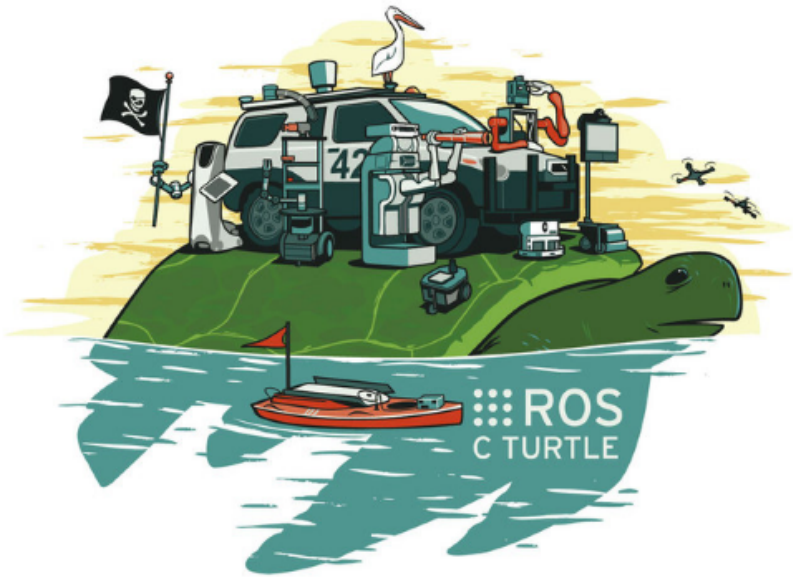
The objective is to estimate the social scene with multiple users by using Kinect controller.

- To detect multiple humans when they ask for attention.
- To perform face tracking and gaze estimation



Platforms

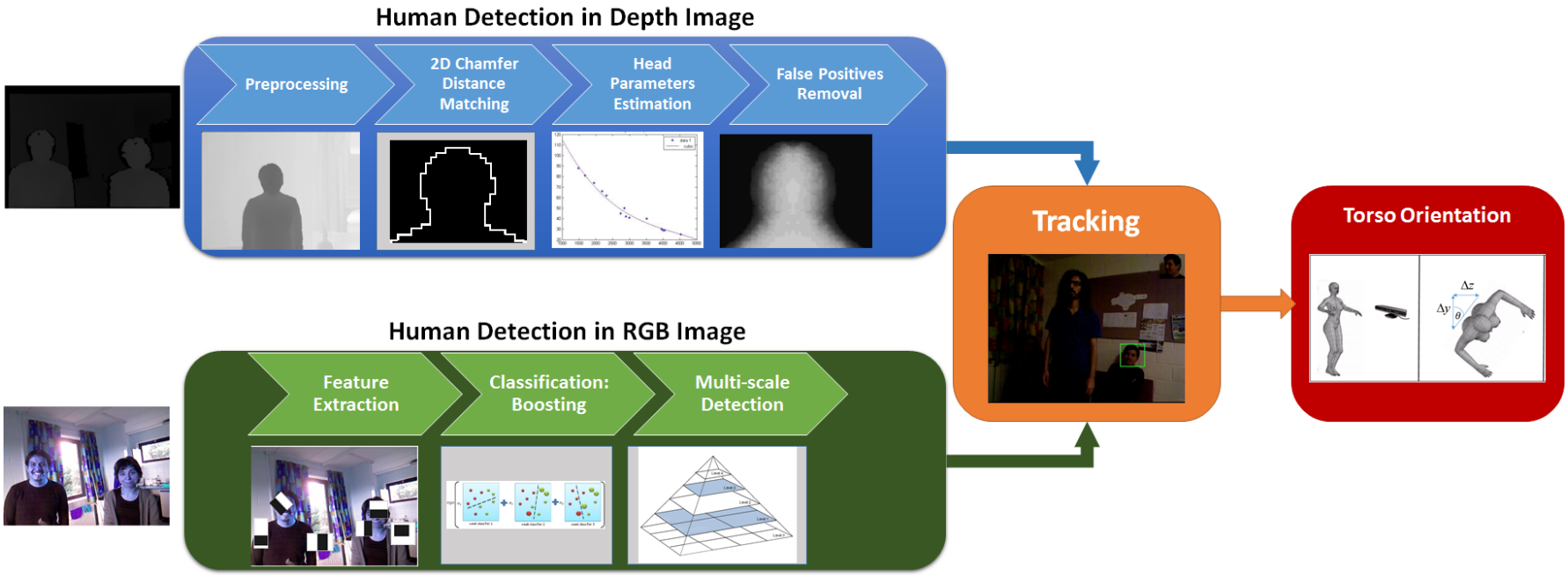
ROS



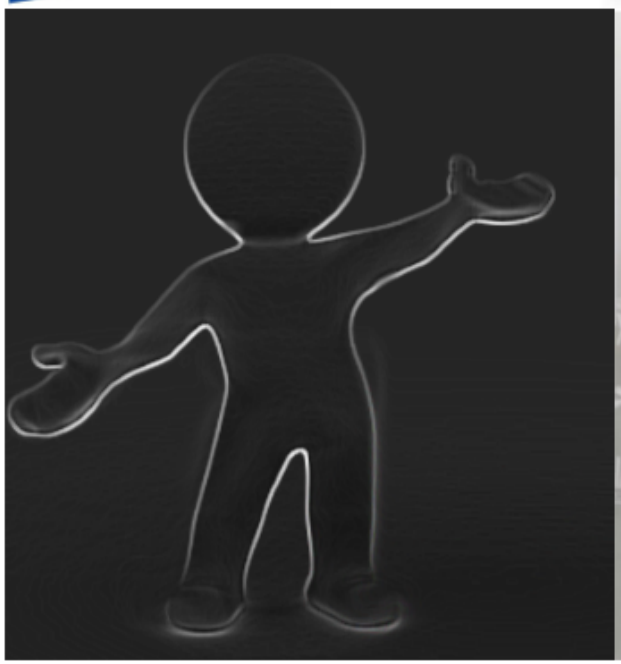
OpenCV

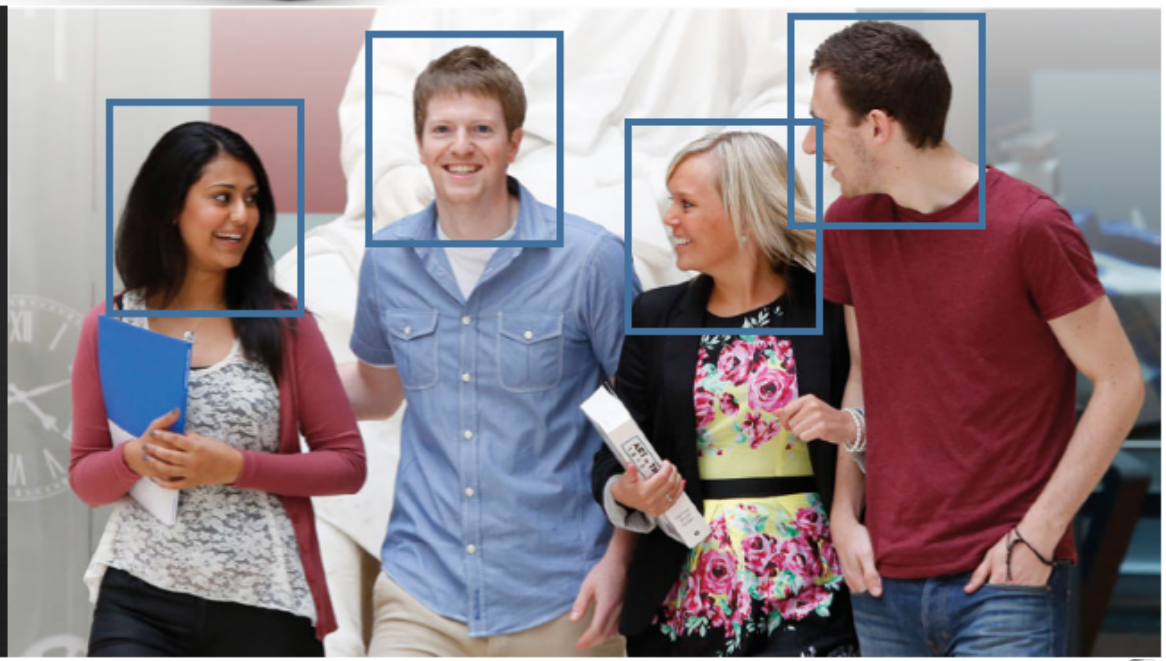
OpenNI™

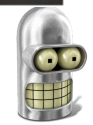
Flowchart


Human Detection in Depth Image
Preprocessing
2D Chamfer Distance Matching
Head Parameters Estimation
False Positives Removal
Human Detection in RGB Image
Feature Extraction
Classification: Boosting
Multi-scale Detection
Tracking
Torso Orientation

Time for demo







THANK YOU