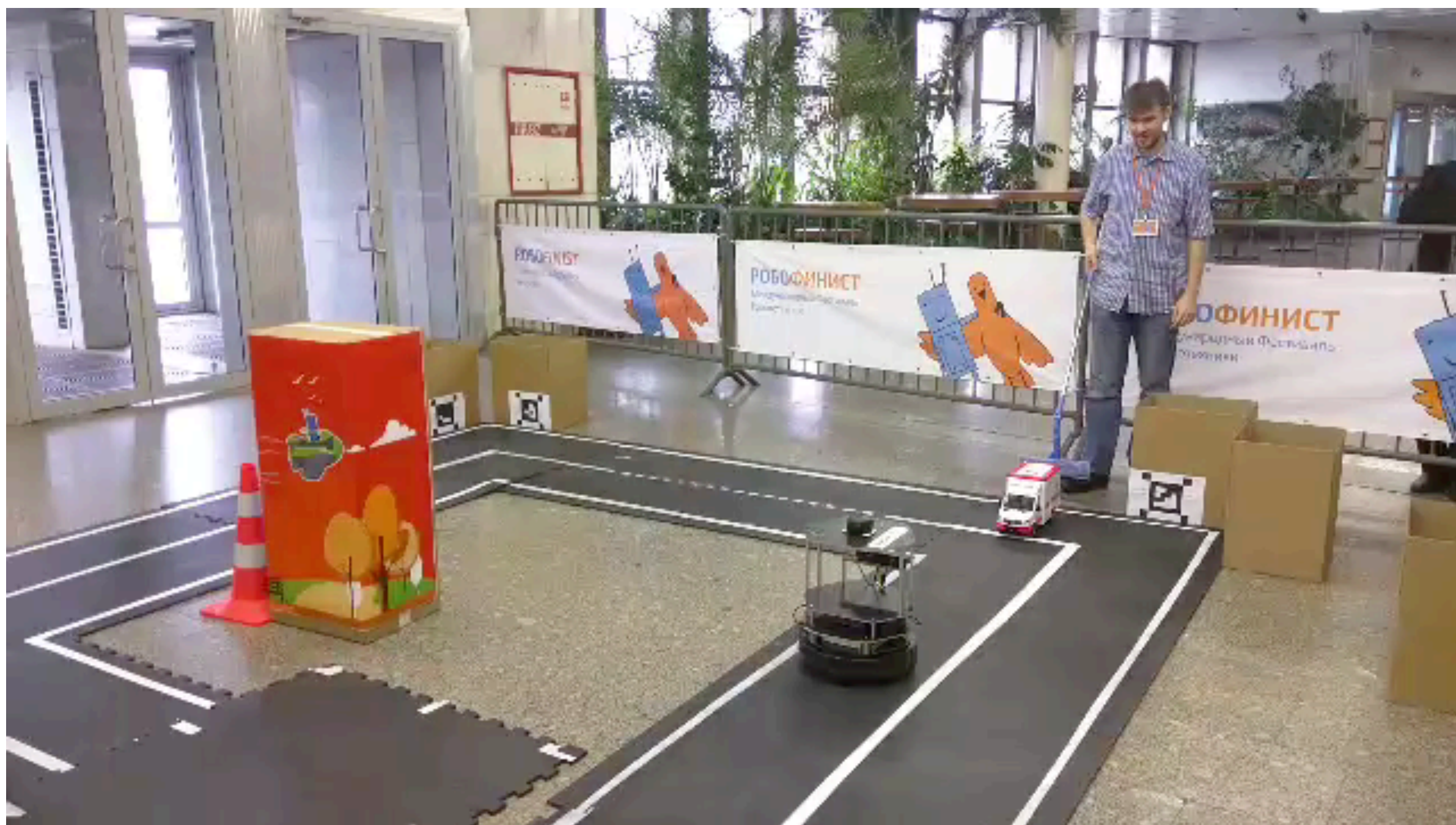


Project Migalka

PiK team







Start
Stop

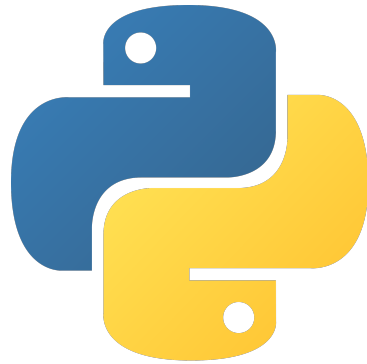
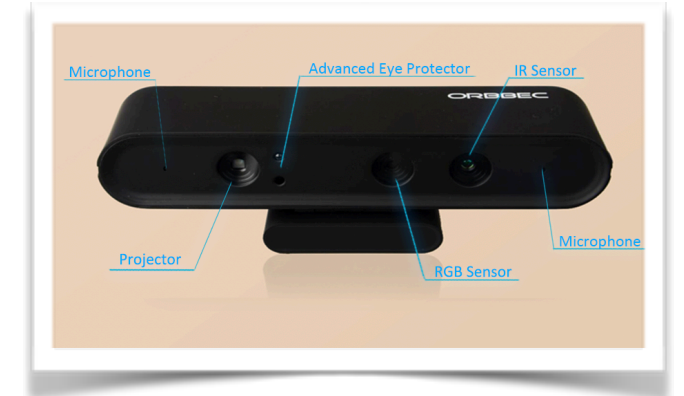


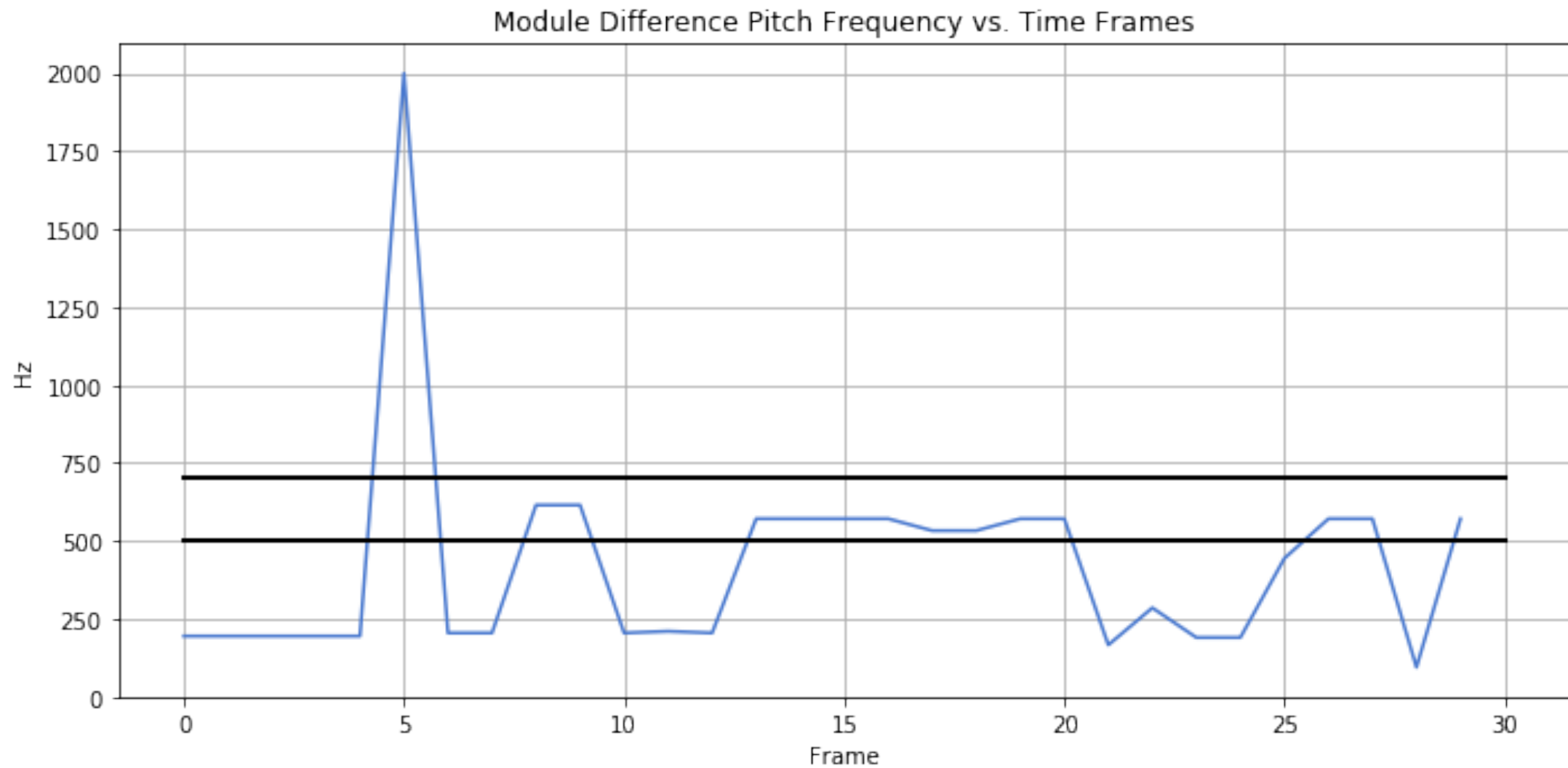
Image Handler
Scanner Handler
Sound Handler



ROS
Robot Operating System



Sound Handler: trigger



Post-processing of autocorrelation function of the audio frames

Emergency siren is in [500Hz, 700Hz] frequency band

Image Handler

Image Handler

Navigation

Trigger

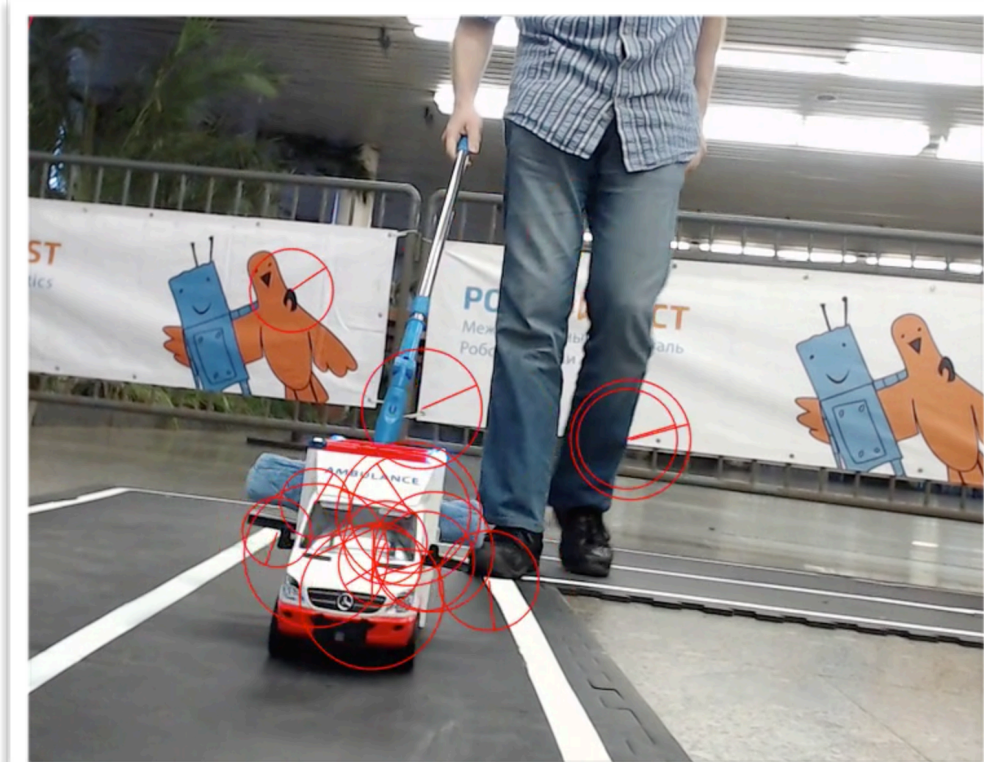
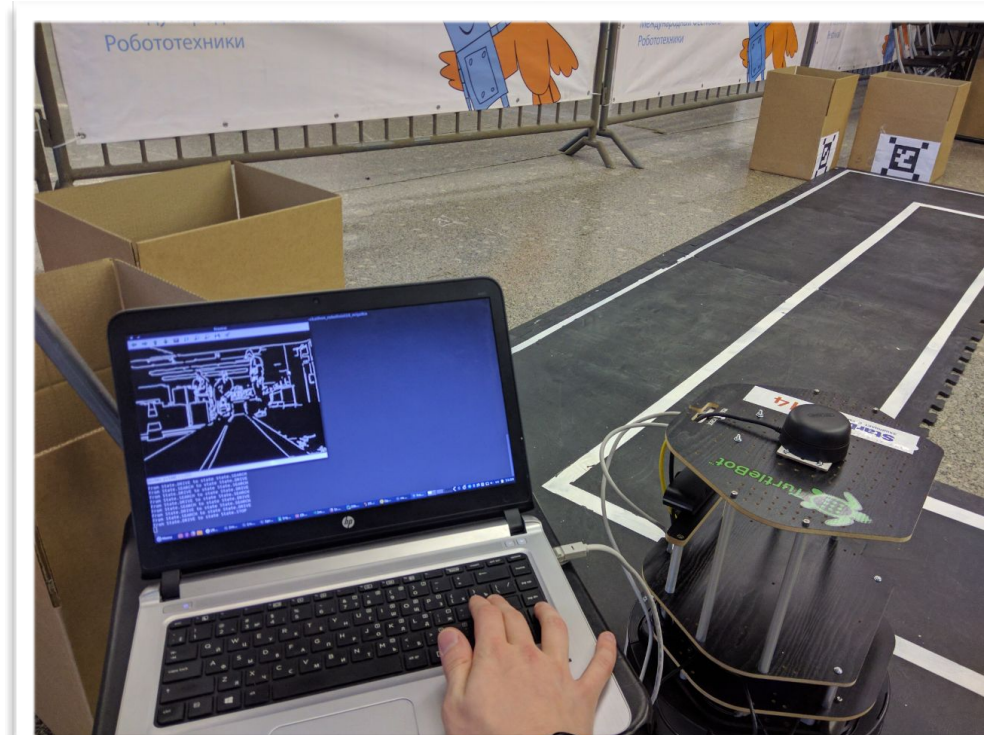
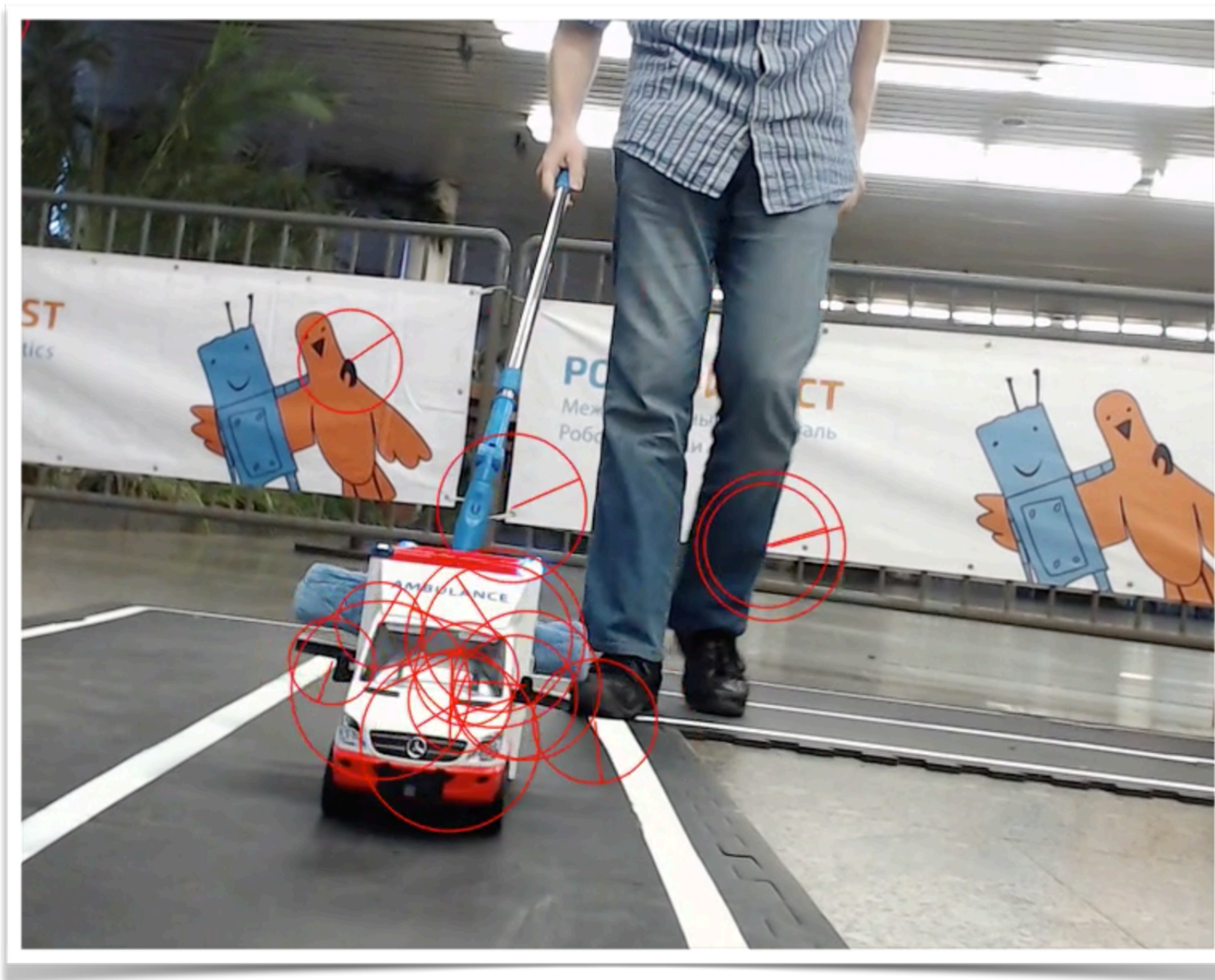


Image Handler: trigger



Image

Rotation- and scale-invariant
template matching

+

scanner trigger

Image Handler: trigger

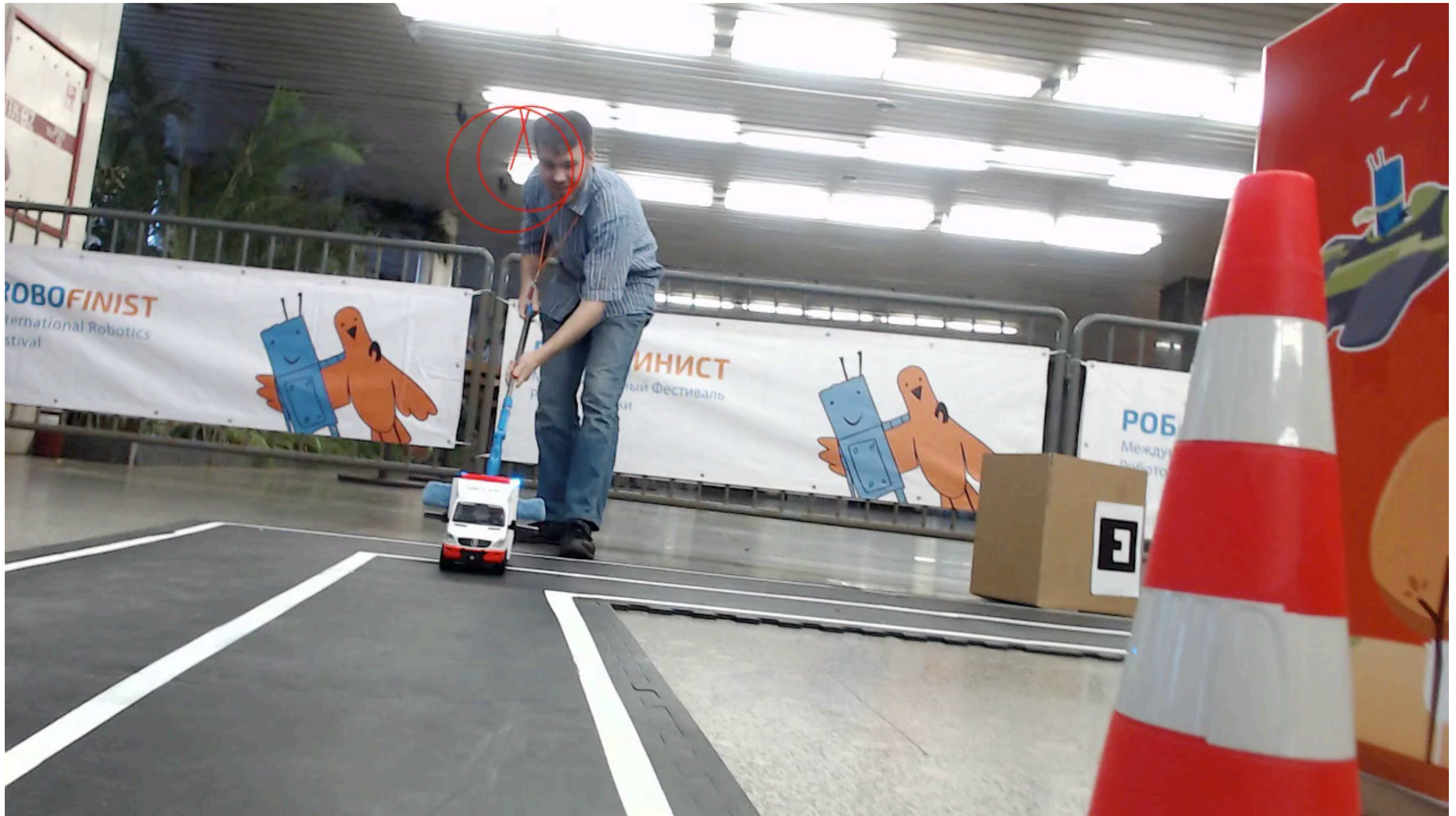
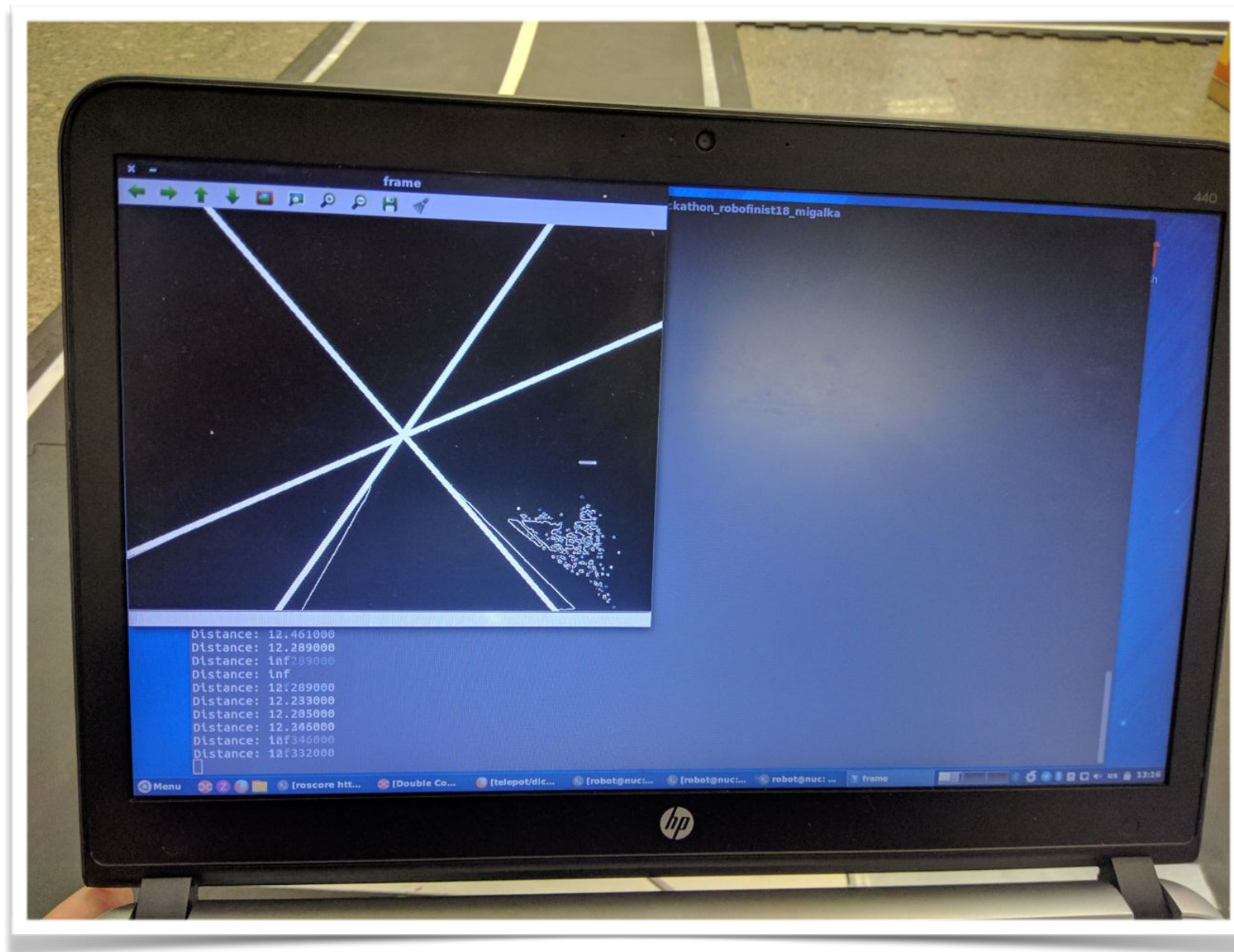


Image Handler: trigger



Image Handler: navigation



Image

Gauss Filter

Threshold Filter

Canny Filter

Hough Transform

Intersection point tracking



Thank you for your attention!