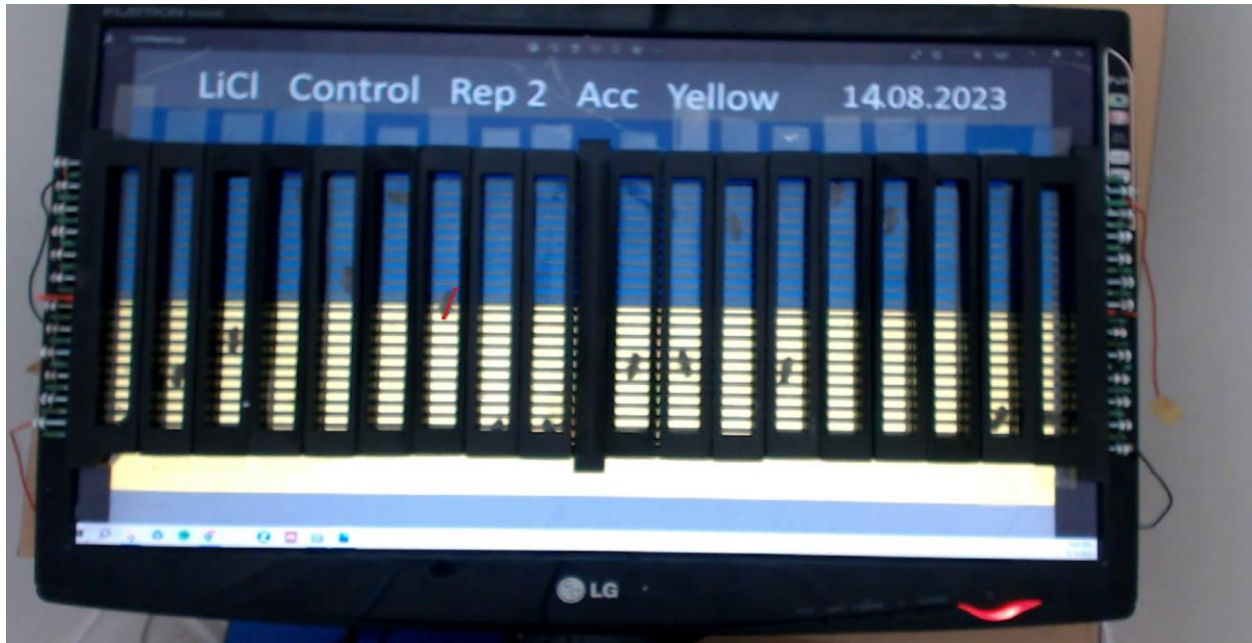
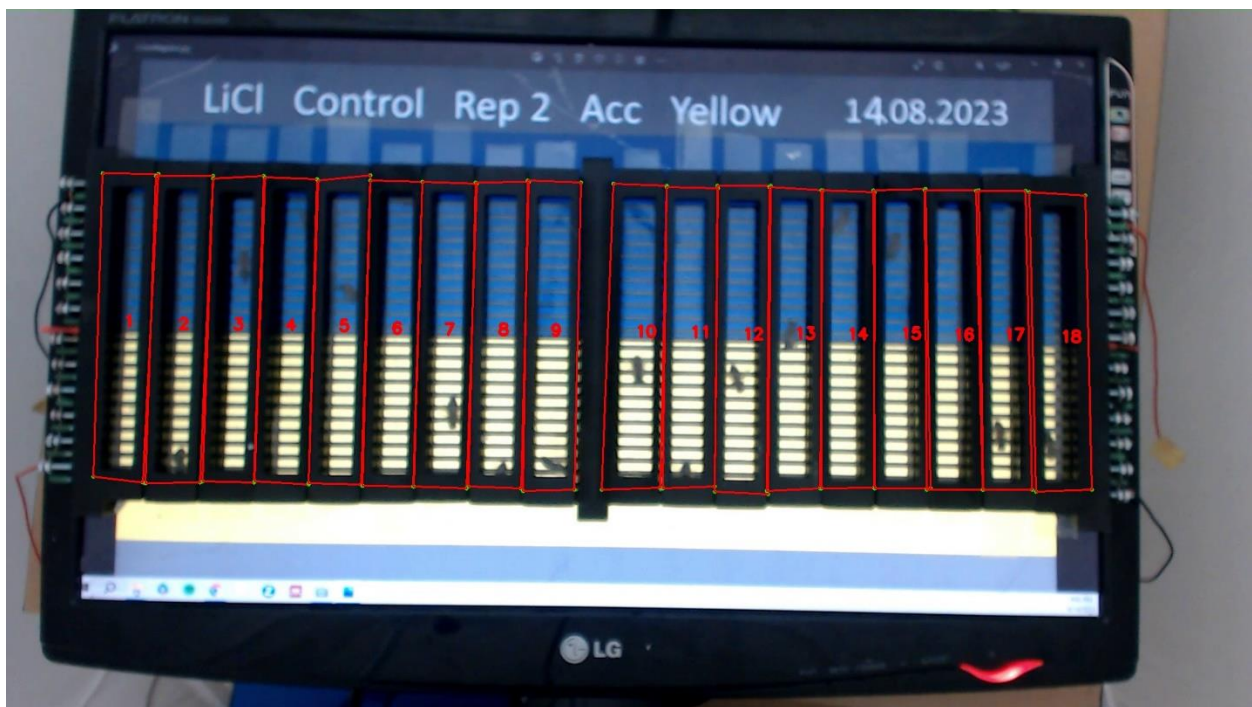


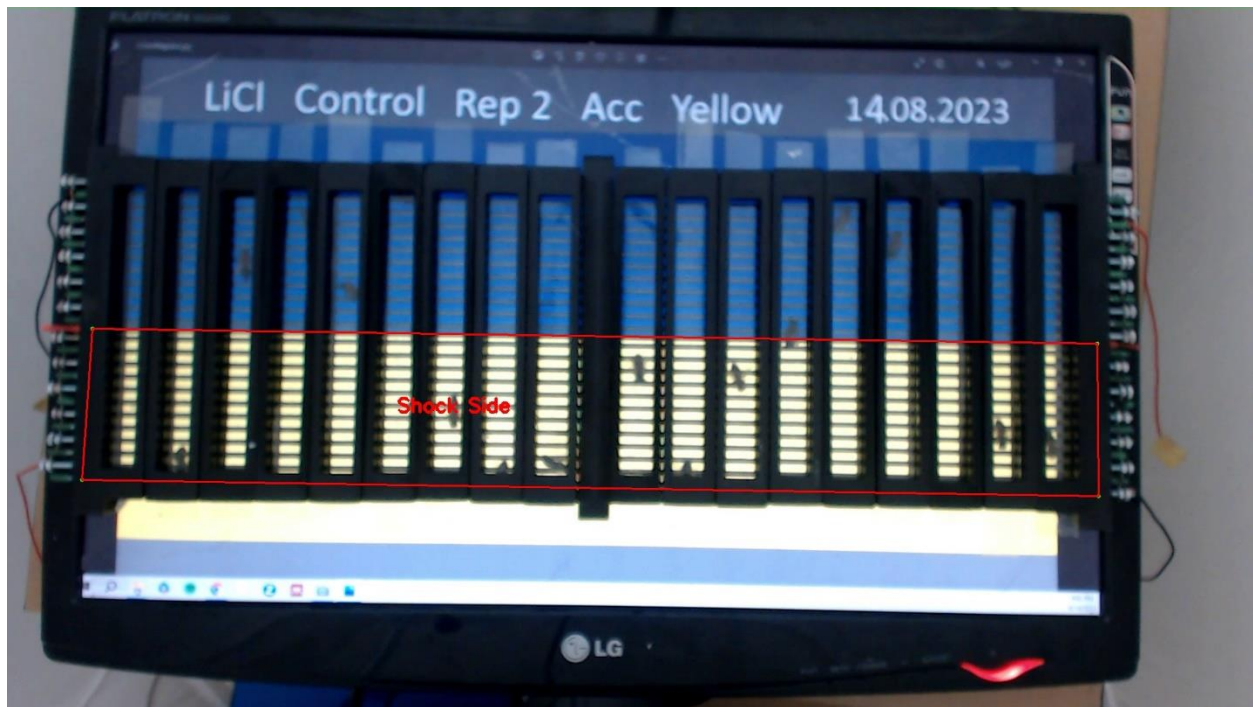
Visuals of Api-TRACE Video Processing Module



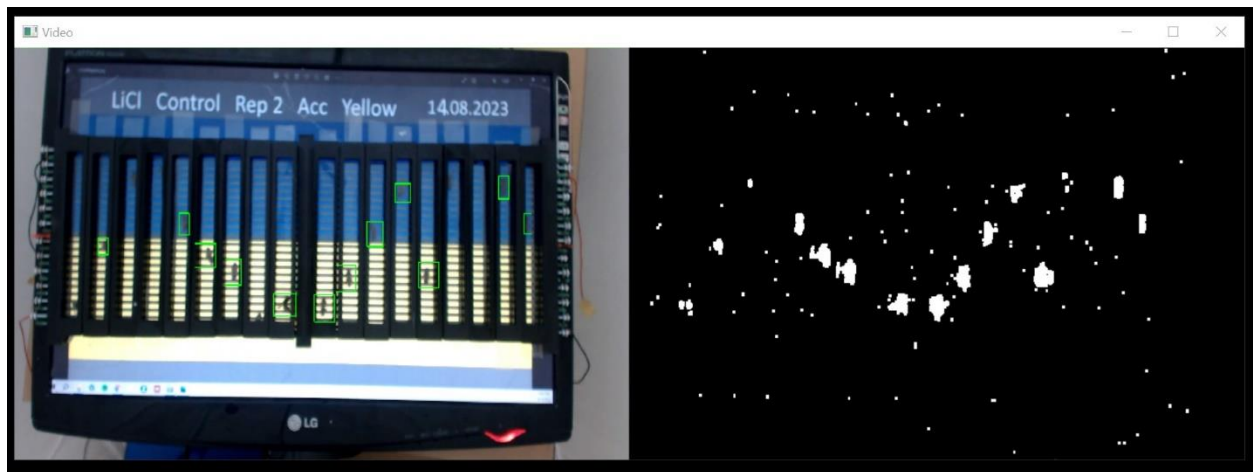
The user draws a line on the first frame of the video to measure the length of a bee.



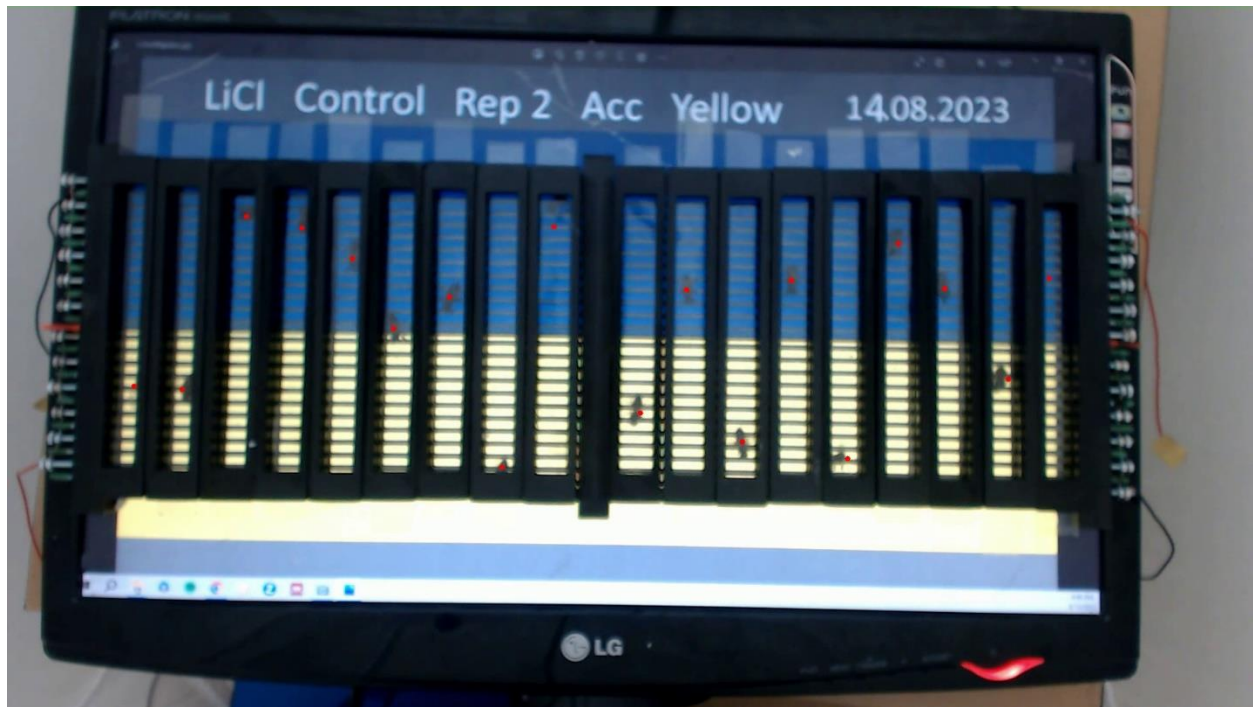
The user draws polygons to define the places of the shuttle boxes. This image saved as {ExperimentVideoName}_BeeNo.jpg



The user defines the exposure area by drawing a polygon. This image saved as {ExperimentVideoName}_ExposureArea.jpg

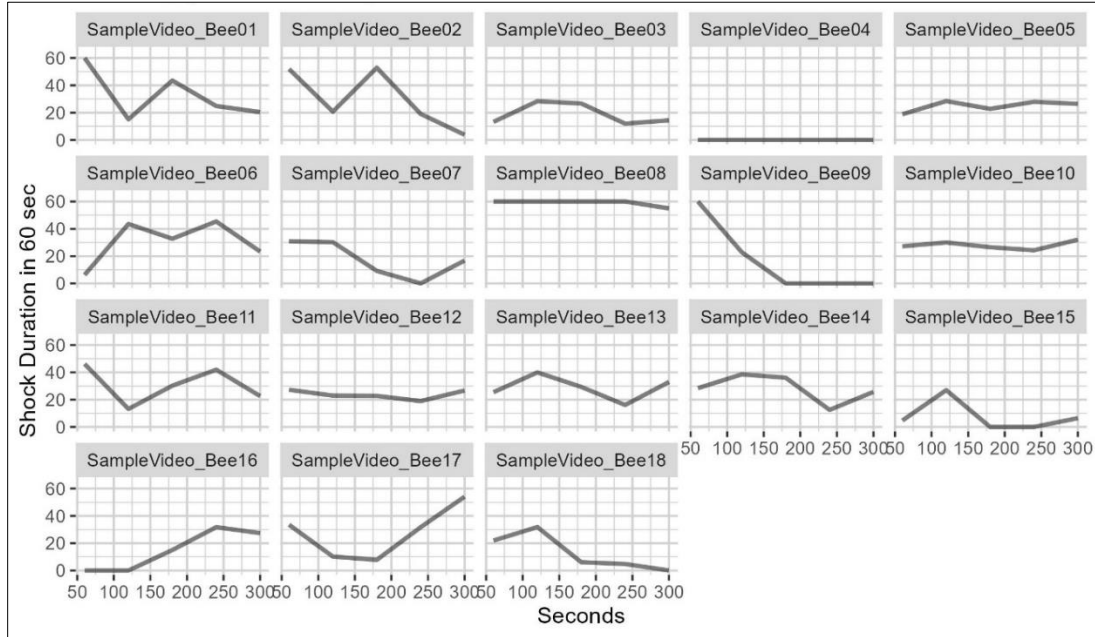


Processing. Bounding boxes display the detected bees, and their center coordinates are recorded for further analysis.

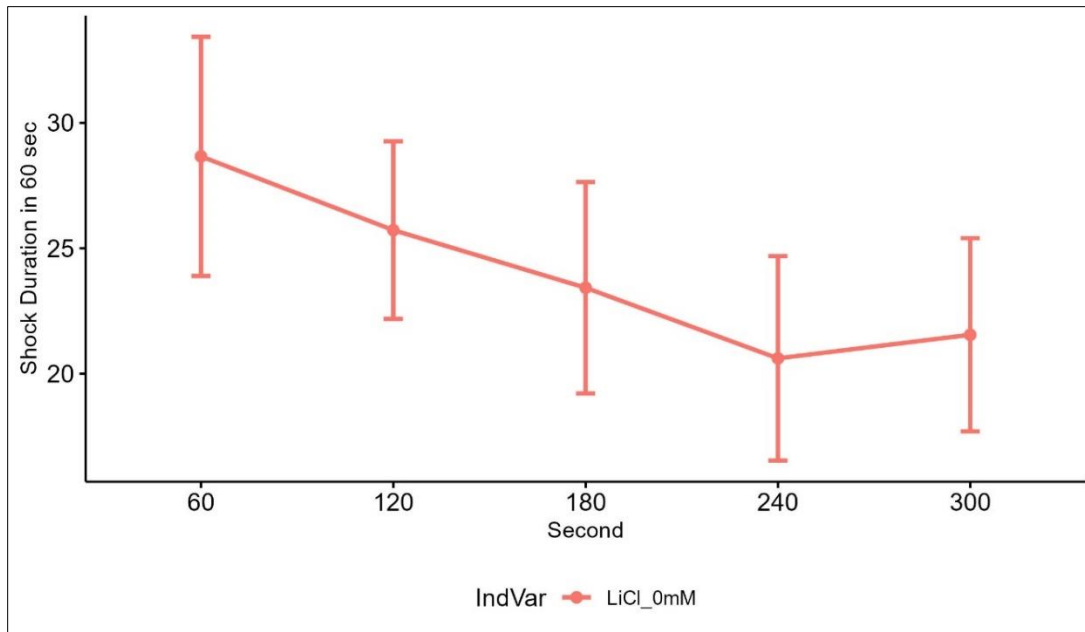


A video is generated to check whether the coordinates of the bees detected by the algorithm are consistent. Dots represent the coordinates of the bee detected by the algorithm. This video saved as {ExperimentVideoName}_DotVideo.mp4

Visuals of Api-TRACE Data Analysis and Visualization Module



Exposure profiles of each bee. This plot saved as {ExperimentVideoName}_IndividualsProfiles.jpg



The exposure curve of the experiment group. Each data point shows the mean (\pm standard error) of the time bees spent on the exposure side. This plot saved as {ExperimentVideoName}_ExposurePlot.jpg