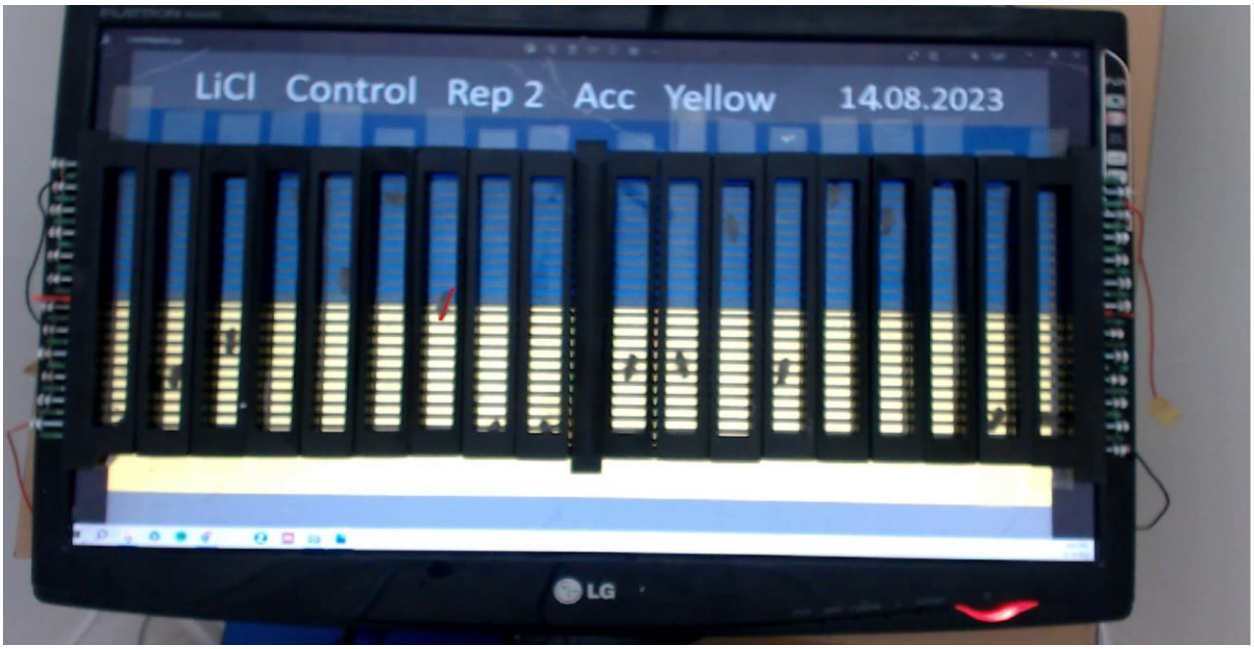
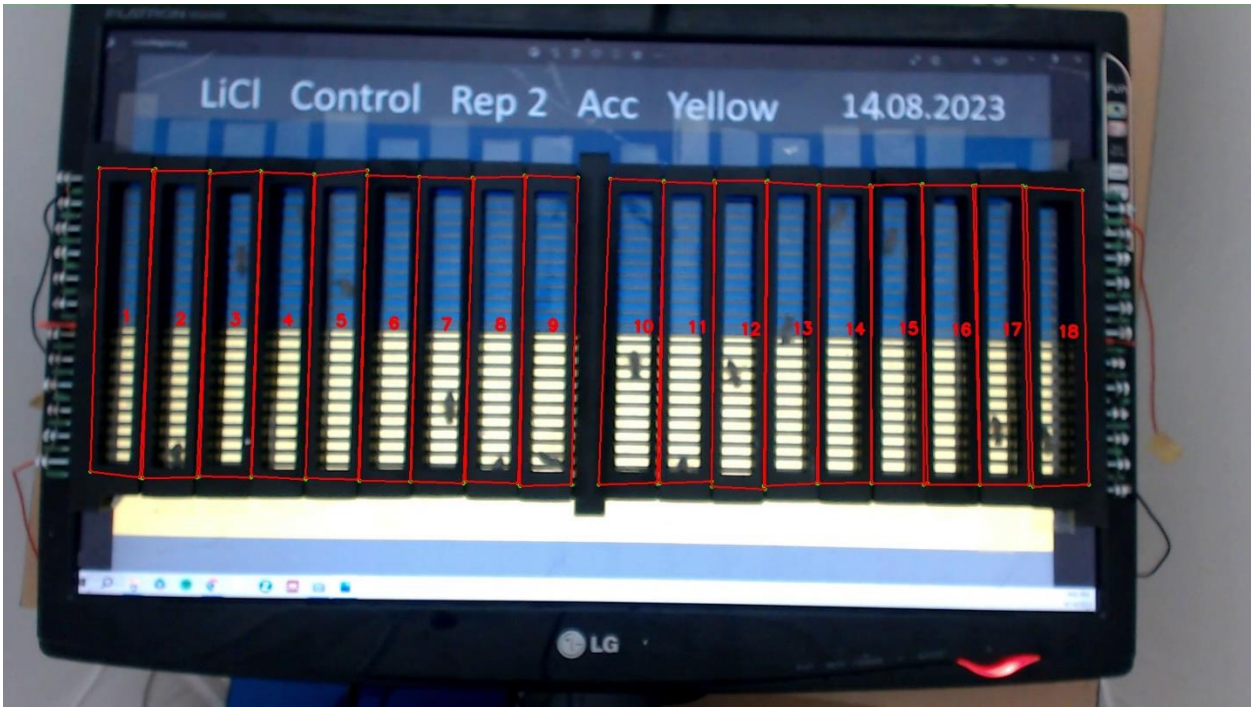
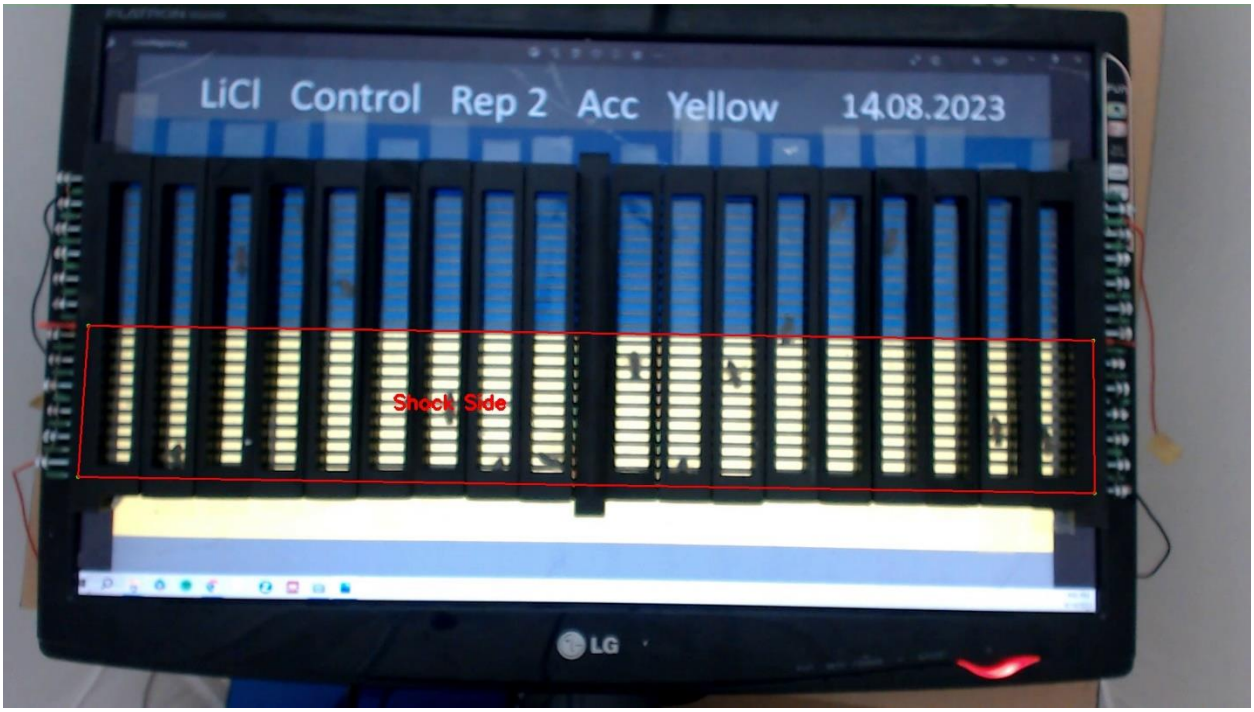
Visuals of "Shocked Bee Detector for Electric Shock Avoidance Assay" code (ShockedBeeDetector.py)



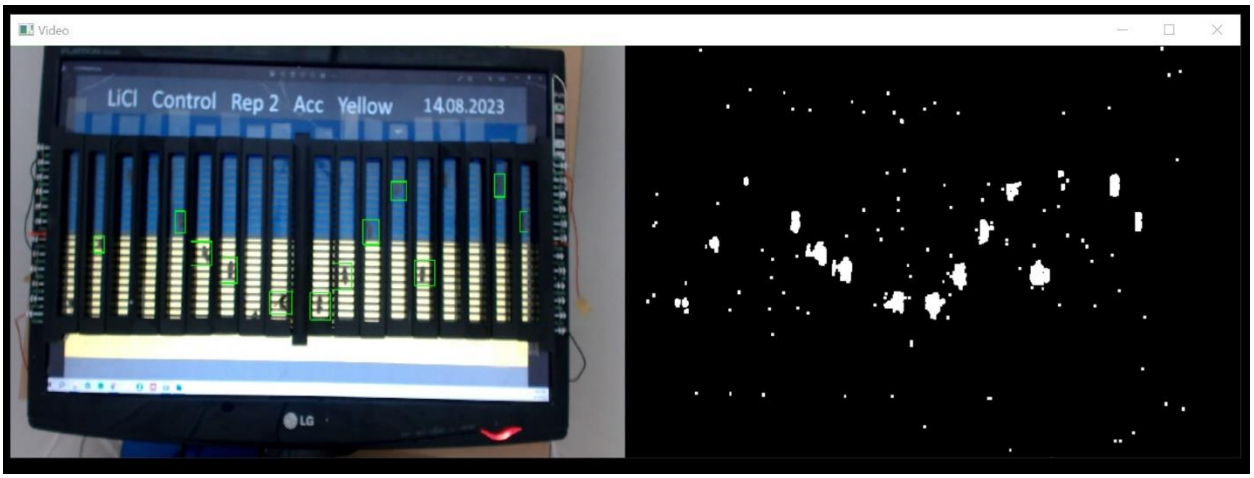
The user draws a line on the first frame of the video to measure the length of a bee.



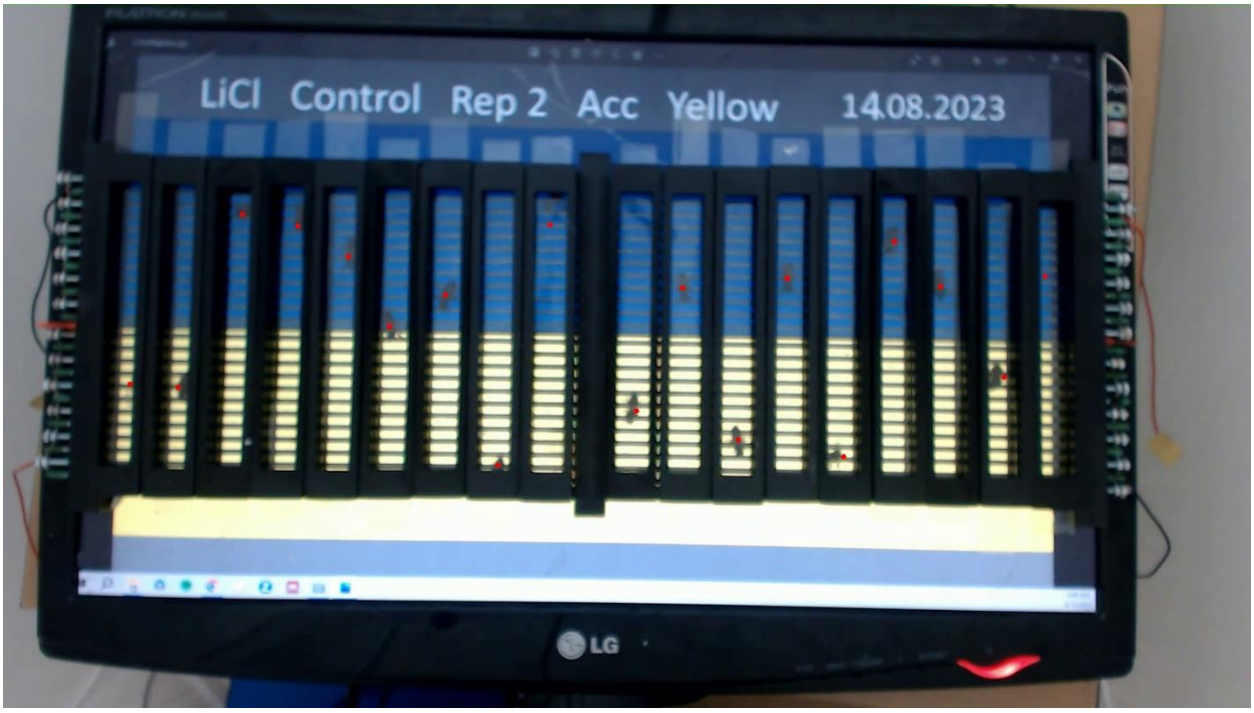
The user draws polygons to define the places of the shuttle boxes. This image saved as {ExperimentVideoName}_BeeNo.jpg



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

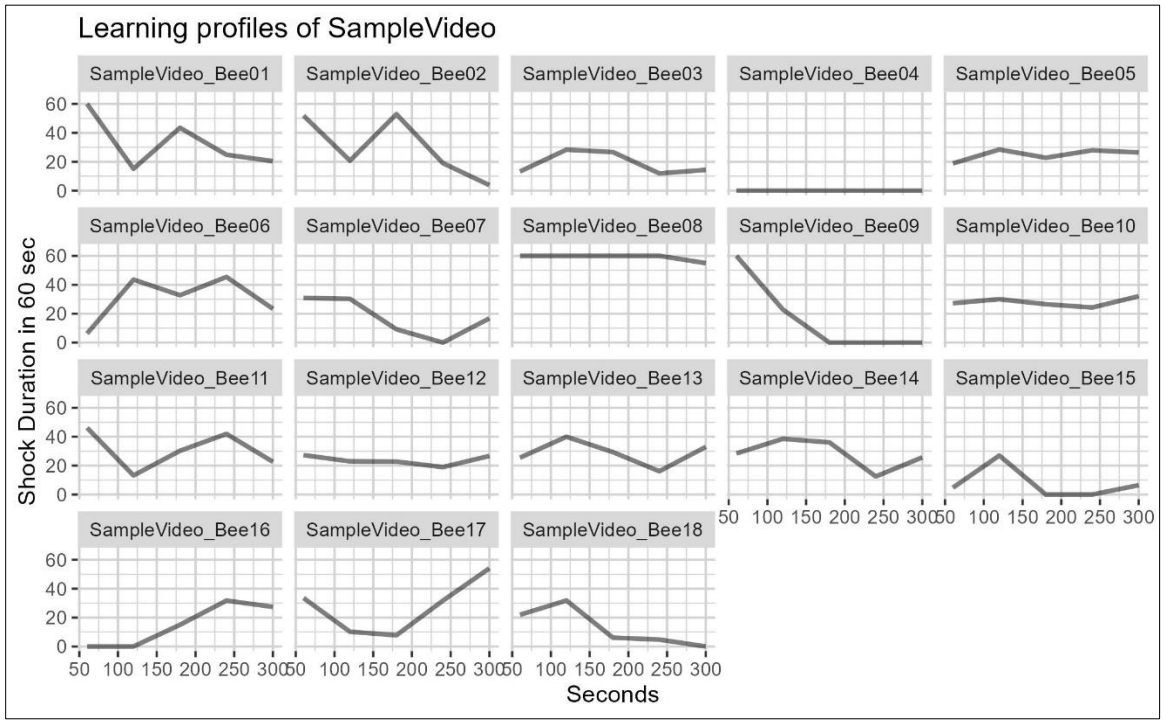


Processing. Bounding boxes display the detected bees, and their center coordinates are recorded for further analysis.

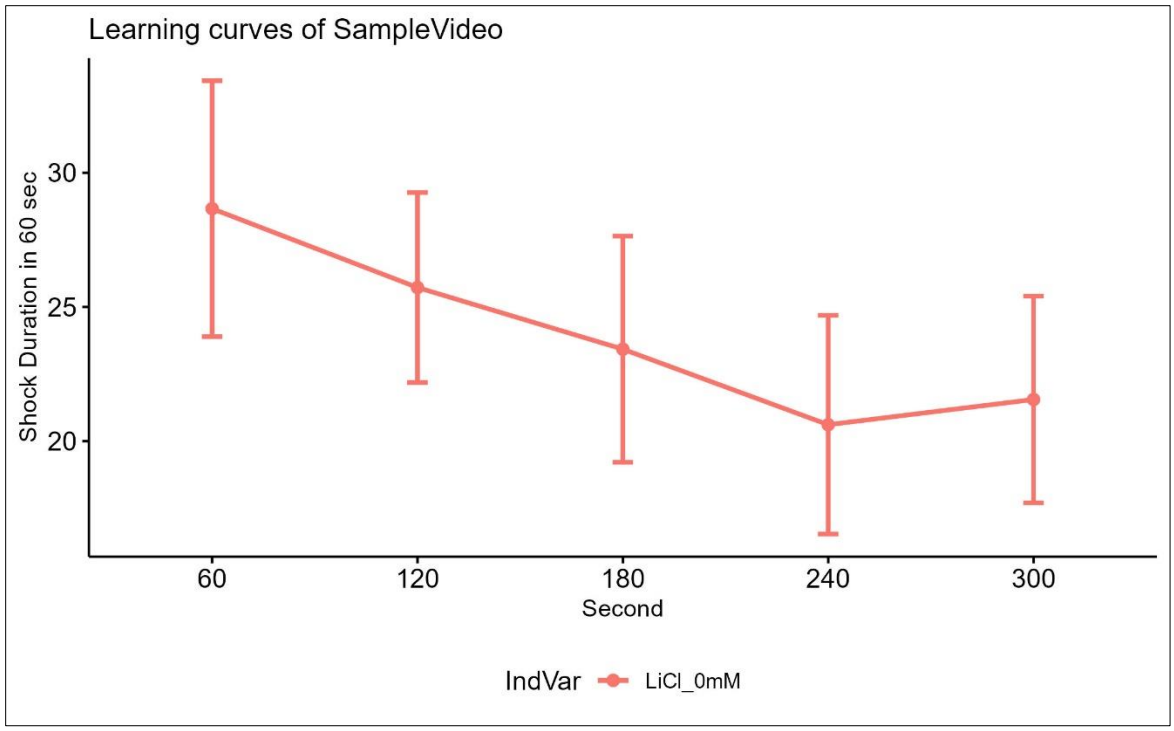


A video is generated to check whether the coordinates of the bees detected by the algorithm are consistent. Dots represent the coordinates of the bee detected by the algorithm. This video saved as {ExperimentVideoName}_DotVideo.mp4

Visuals of "Learning Curve Plotter from Shocked Bee Detector Output" code (LearningCurvePlotter.R)



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



The learning curve of the experiment group. Each data point shows the mean (± standard error) of the time bees spent on the shock side. This plot saved as {ExperimentVideoName}_ShockPlot.jpg