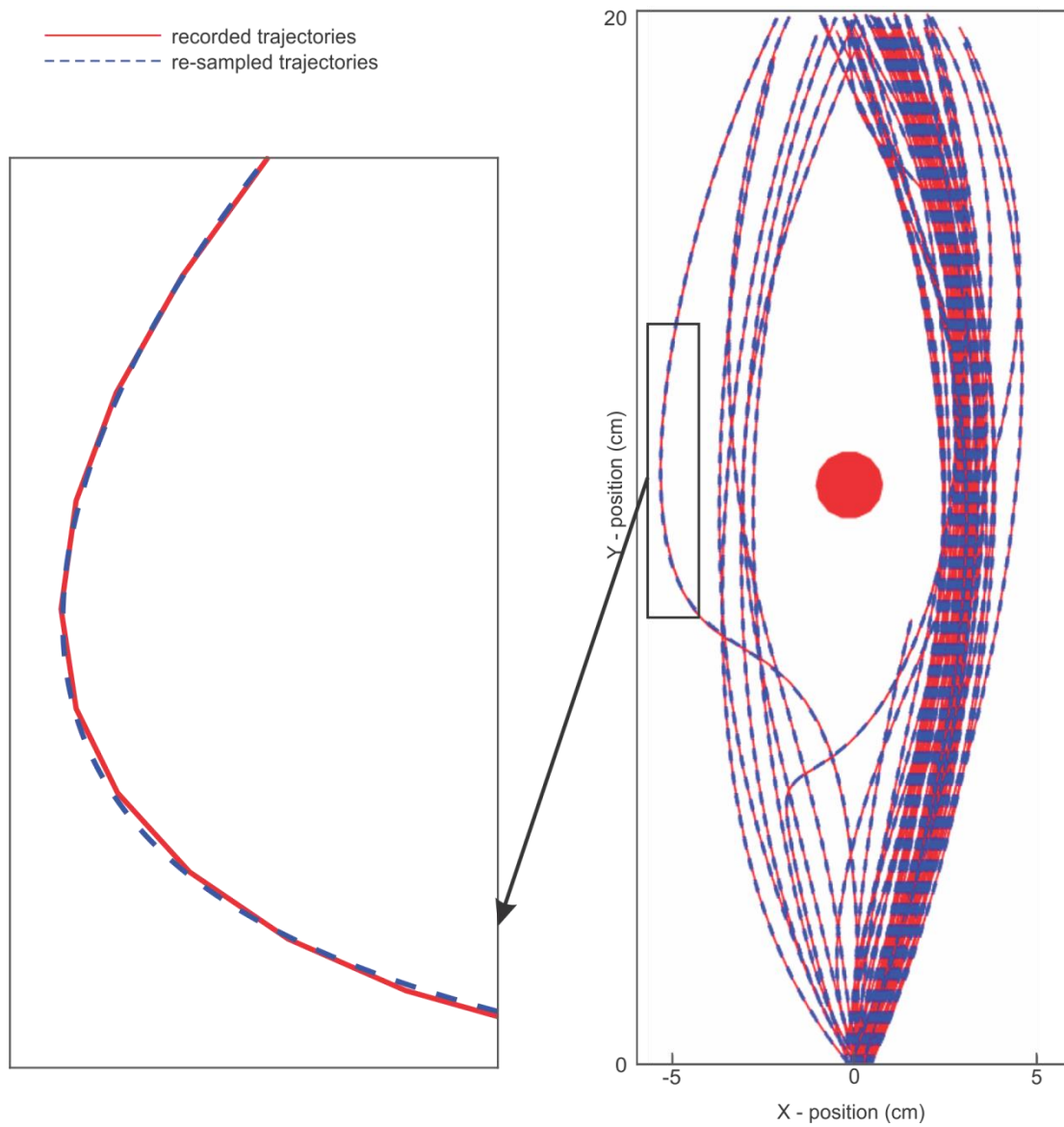**Supplementary Material**

Figure S1. Comparison between re-sampled and recorded trajectories. Right panel shows several trajectories (resampled and recorded) for the central obstacle. The left panel shows a zoomed illustration of an example trajectory. As can be seen, the algorithm generated an acceptable resemblance of the recorded trajectories.