Assignment 8

In this assignment, we were required to use the delay and sum algorithm for obstacle detection using a source and an array of mics. The following outputs were generated for various values of `Nmics` and `Nsamples`

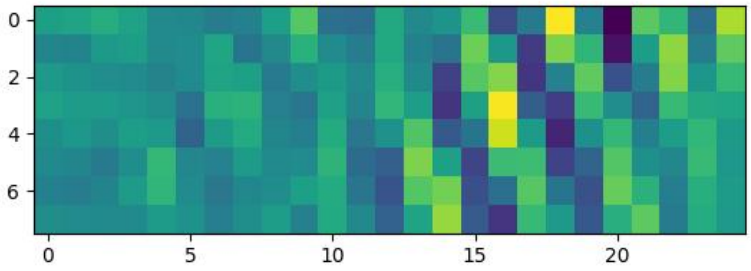

Figure 1: Heatmap obtained for Nmics = 8, Nsamples = 50

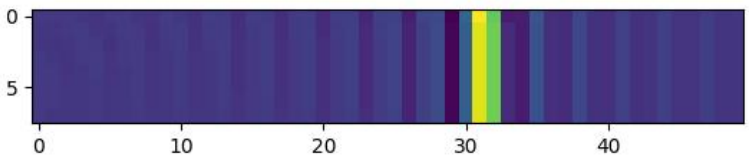

Figure 2: Heatmap obtained for Nmics = 8, Nsamples = 100

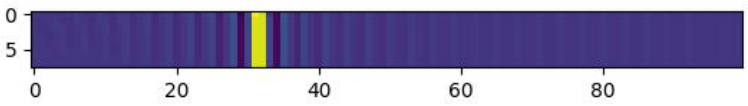

Figure 3: Heatmap obtained for Nmics = 8, Nsamples = 200

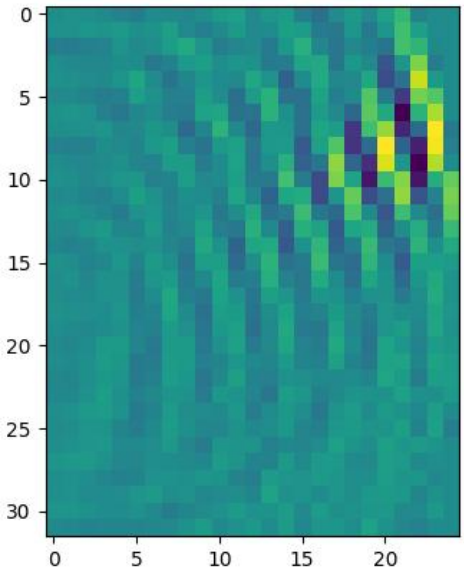

Figure 4: Heatmap obtained for Nmics = 32, Nsamples = 50

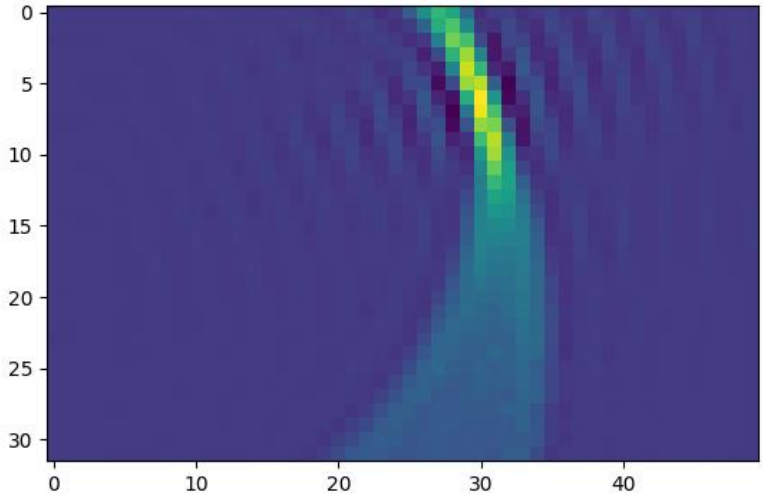

Figure 5: Heatmap obtained for Nmics = 32, Nsamples = 100

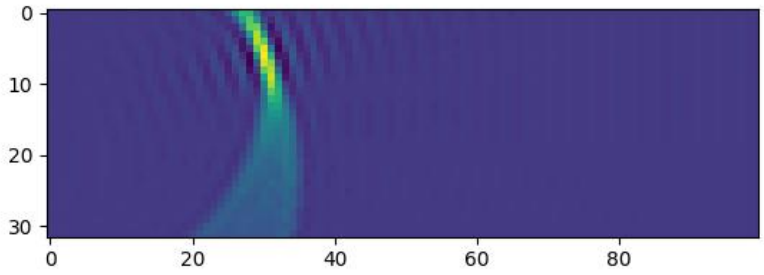

Figure 6: Heatmap obtained for Nmics = 32, Nsamples = 200

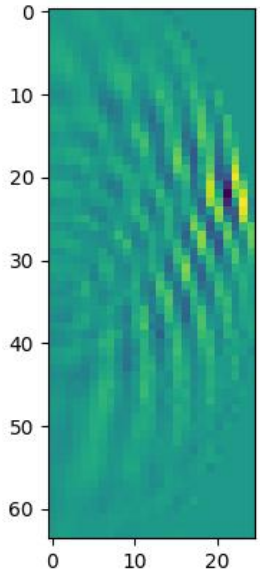

Figure 7: Heatmap obtained for Nmics = 64, Nsamples = 50

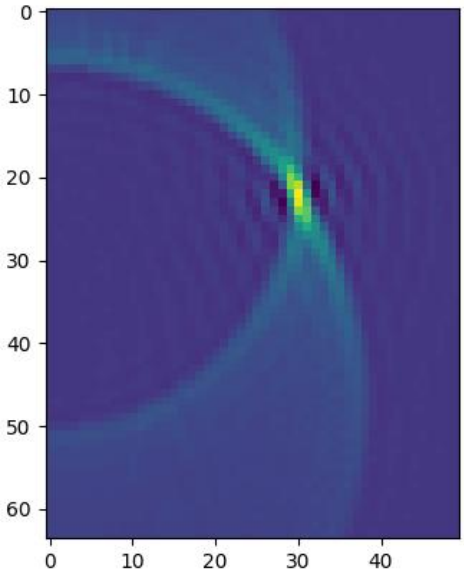

Figure 8: Heatmap obtained for Nmics = 64, Nsamples = 100

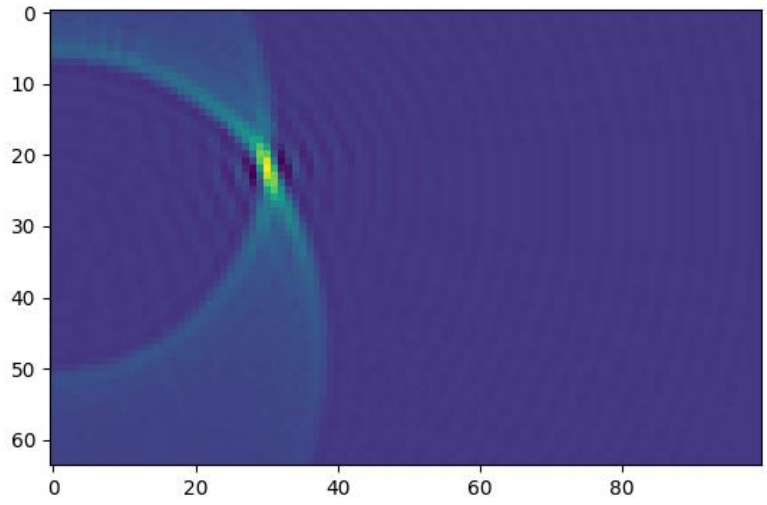

Figure 9: Heatmap obtained for Nmics = 64, Nsamples = 200