EX6 Mobile Robotics
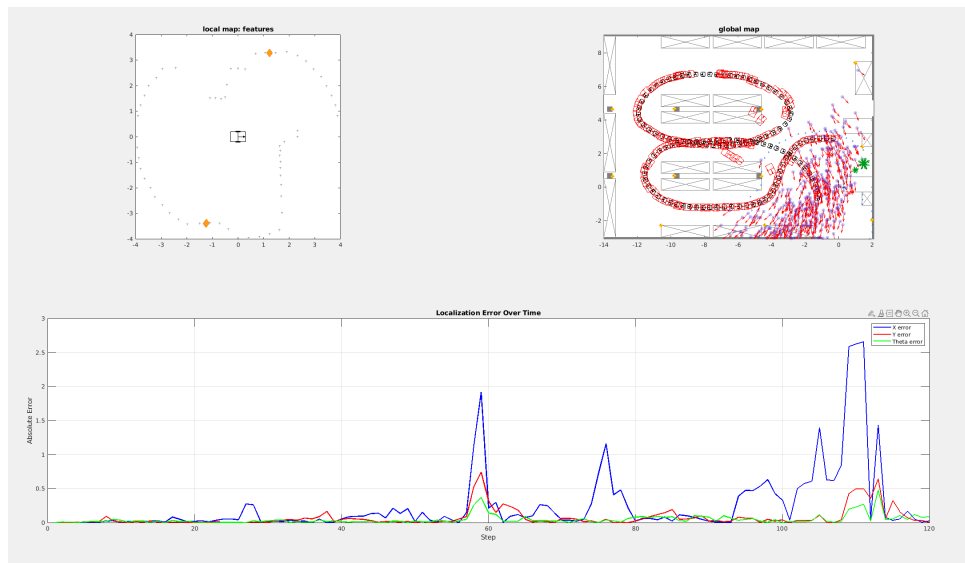
Abdulrahman Hameshli

December 2024

A, 0.0

Figure 1: NEFFTHESHOLD = 0.0 , NParticles = 500, Systematic resampling

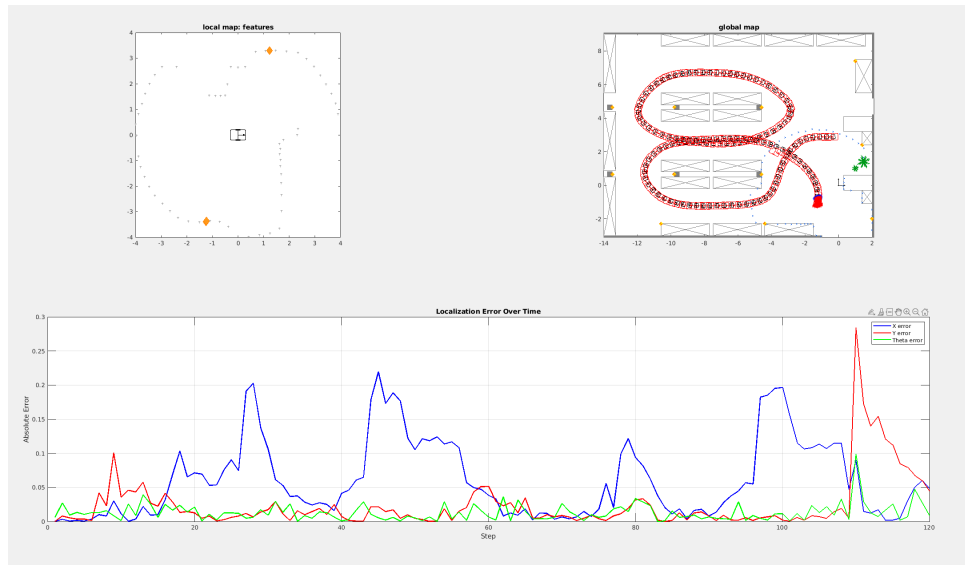- mean Max Occurrences = 1

A 0.1

Figure 2: NEFFTHESHOLD = 0.1 , NParticles = 500, Systematic resampling
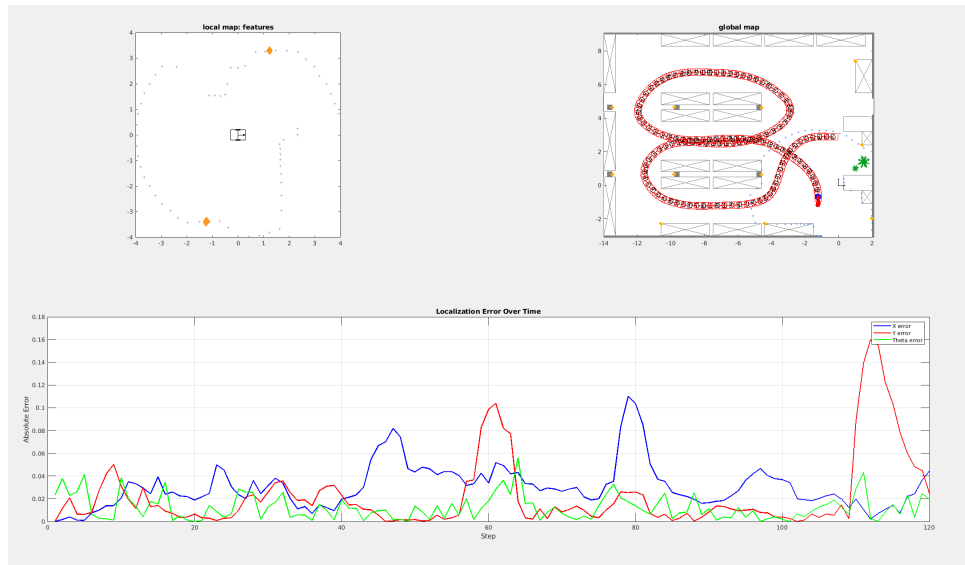
- mean Max Occurrences = 1

A 0.5

Figure 3: NEFFTHESHOLD = 0.5 , NParticles = 500, Systematic resampling
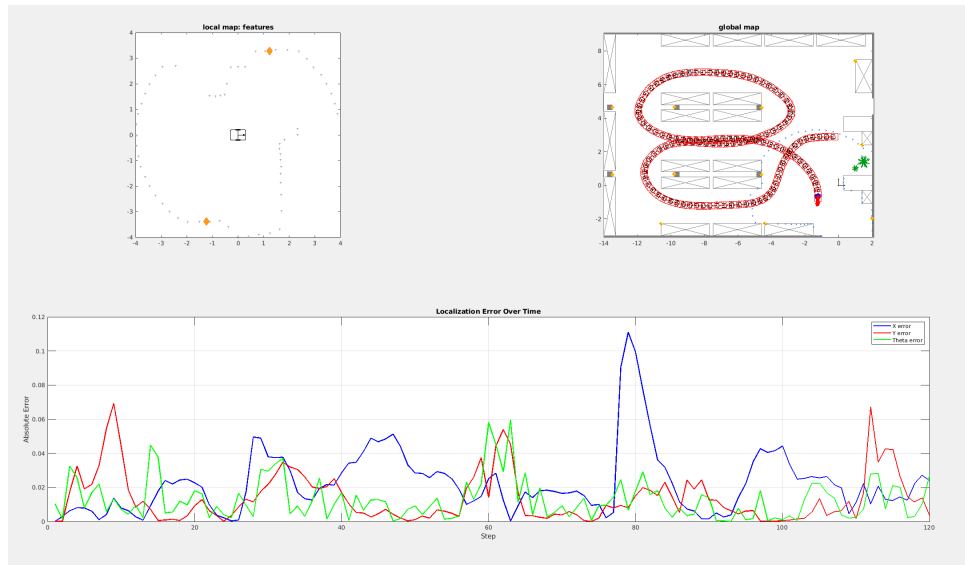
- mean Max Occurrences =

A 1

Figure 4: NEFFTHESHOLD = 1 , NParticles = 500, Systematic resampling
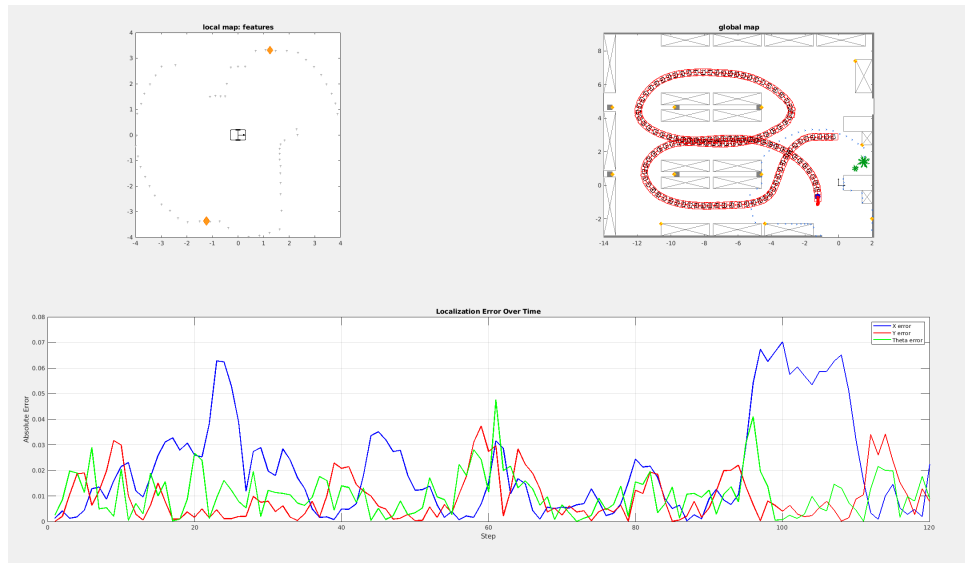
- mean Max Occurrences =

b

B, 50

Figure 5: NEFFTHESHOLD = 0.66 , NParticles = 50, Systematic resampling
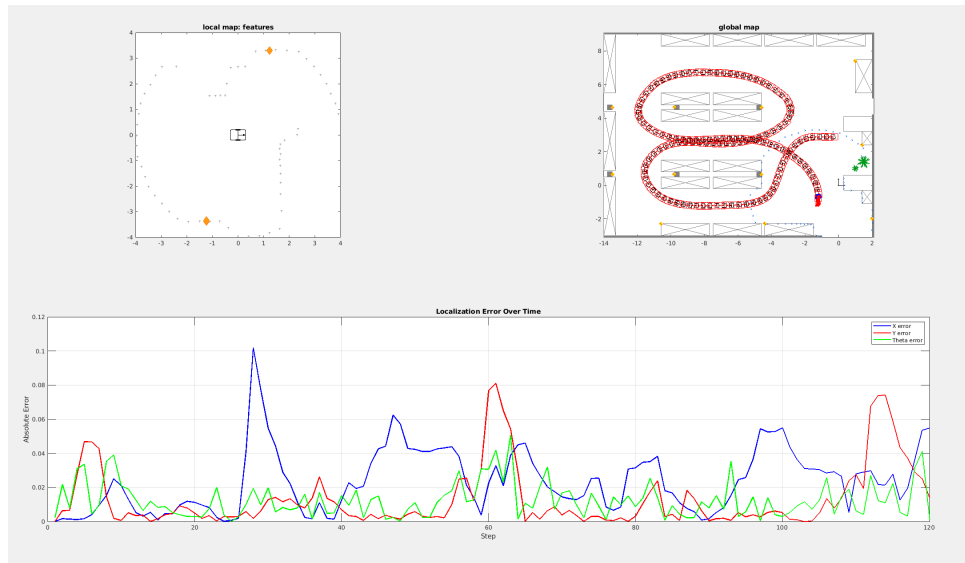
- mean Max Occurrences = 1

1 B 500

Figure 6: NEFFTHESHOLD = 0.66 , NPar ticles = 500, Systematic resampling
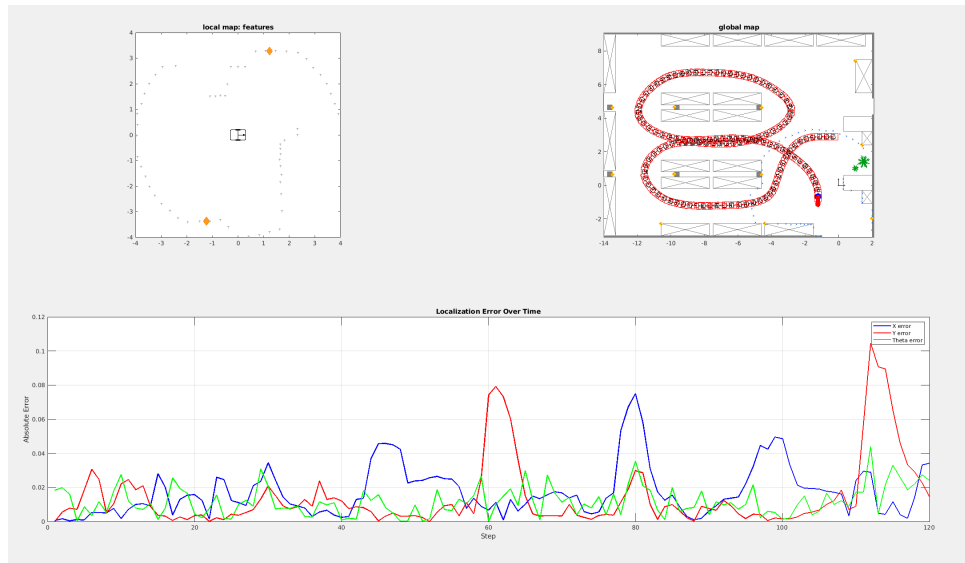
- mean Max Occurrences =

B 2000

Figure 7: NEFFTHESHOLD = 0.66 , NParticles = 2000, Systematic resampling

- mean Max Occurrences =