SugarTrail Code Introduction

1 Phase 1: Signature Test

- Location: \sugar\cluster\reading_testing
- Fig:
 - Stable reading for one node
 - Disturbed reading for one node
 - Relatively stable signature for one node
- Run: sig_test_drawing.m

2 Phase 2: Distribution Table/Curve generate

- Location: \sugar\cluster\distribution
- Fig:
 - Relation of ranging distance and real distance
- Run: ranging_real.m

3 Phase 3: Hallway Test

- Location: \sugar\cluster\hallway_simulation
- Fig:
 - Cluster
 - Navigation
 - Base number and performance
 - Cluster size threshold and performance
- Run: main.c

4 Phase 4: Lab(Field Test)

- Location: \sugar\cluster\lab_field_test
- Fig: None
- Run: main.c

5 Phase 5: Lab(Database Test)

- Location: \sugar\cluster\lab_database
- Fig:
 - Clustering(path_length = 10000)
 - Navigaion

• Run:

- p1_collect_readings.m (collecting data, done, don't run again)
- p2_data_process.m (generate proper data structure for later, done, don't run again)
- p3_generate_cluster.m

6 Phase 6: Supermarket Experiment

• Supermarket layout: supermarket.skp

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