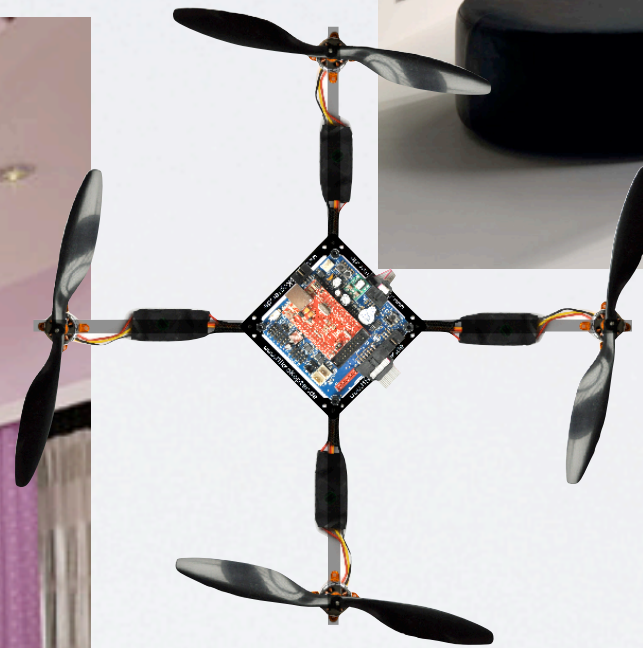


Idea

Where am I?



Solution

FAB-MAP

Fast Appearance Based Mapping

appearance-only SLAM

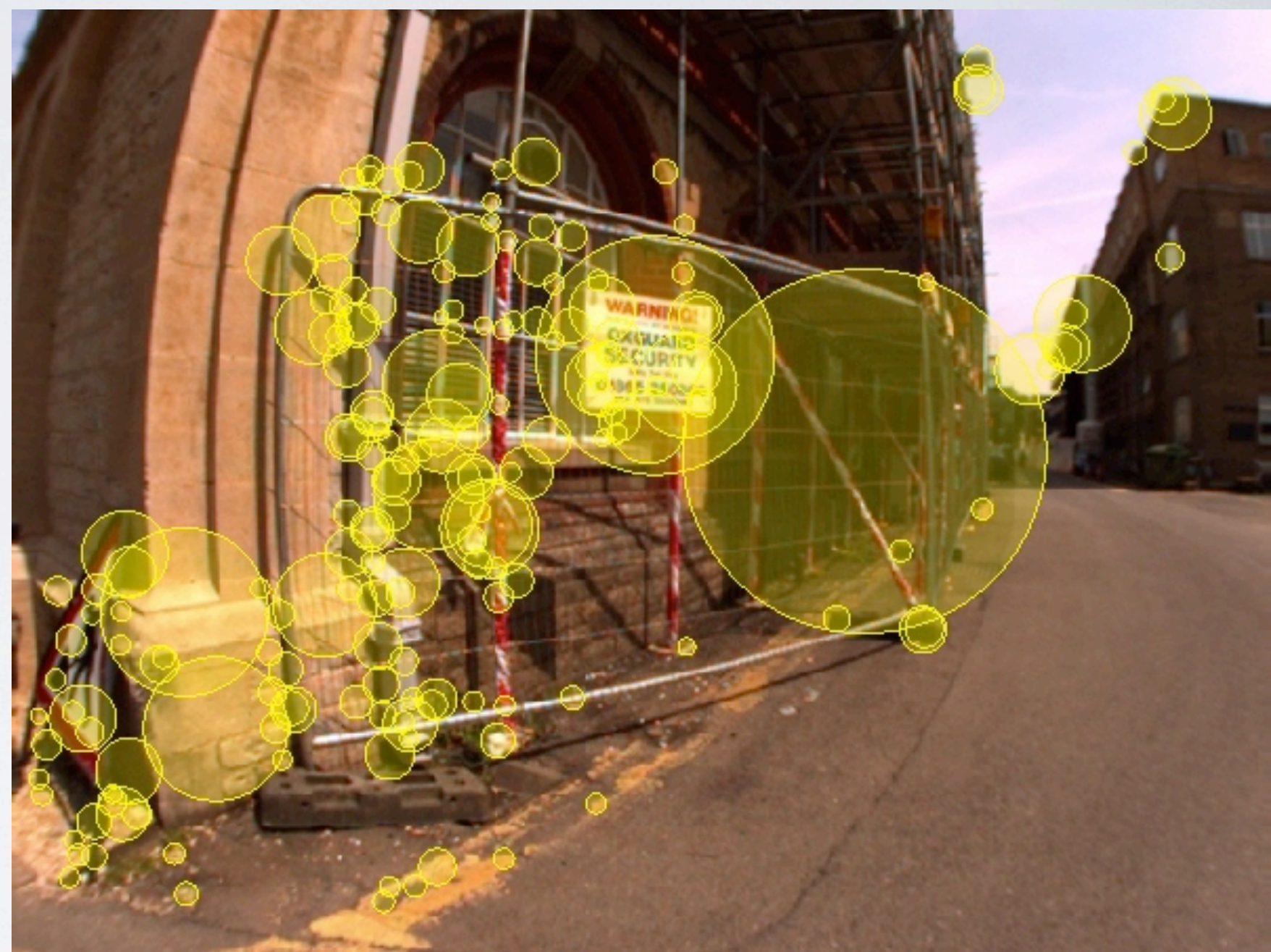
recognizes previously seen locations

solves the loop closure problem

robust in visually repetitive environments

large scale localization

How fab-mapping works



does not compute image similarity but image distinctiveness

Tasks

understand Fab-Map by reading relevant papers

investigate ROS-OpenFabMap2 package

1 ■ training phase collect training data for multiple locations

2 ■ flying phase recognize room and make special move

Future Work

master thesis: appearance-based navigation

