



iGP: Smart City

iGP Module: Smartphone Based Mobile Mapping

Lead Supervisor: Dr. Bassem Amin

Mobile Mapping system (MMS) integrates various navigation and remote sensing technologies which allow mapping from moving platforms and synchronized to a common time base to obtain the 3D coordinates of the points of interest. The strength of MMS lies in its ability to directly geo-reference its mapping sensors without using any control points (GPS/INS). Nowadays Smartphones are being equipped with very high resolution camera, GPS, MEMS inertial sensors, high resolution camera, Wi-Fi receiver; Bluetooth, magnetometer, barometer and powerful computing power. Can Smart phone be a Mobile Mapping System? The goal of this project is to build mobile application that deals with the smart phone sensors (devices) to build a mobile mapping system.