

ABSTRACT

Topic: «Research of using differential GPS correction in Android mobile devices»

The work contains 91 pages, 31 figures, 8 tables and 3 additions. 38 sources have been used.

The object of study is Global Positioning System.

The subject of study is GPS usage in mobile devices based on Android operating system.

Purpose is to research of using differential GPS correction in Android mobile devices.

Access to raw GPS data in Android operating system allow implementation of own algorithms for positioning accuracy improvement. Usage of DGPS corrections causes compensation of most GPS errors, which increase positioning accuracy up to 1 meter.

Keywords: GPS, DGPS, Android, raw GPS data, positioning, accuracy increasing.