

## **Abstract**

The aim of this work is to provide an overview of modern geoinformation systems operating on mobile technology platform. Selected technologies were evaluated by the students of elementary and secondary schools developed using test materials.

In the introductory part of the paper briefly describes the current available technology smart phones and tablets focusing comparison platform iOS and Android. The second part of presents an overview of available geo-information software with a focus on free downloadable programs. The third part presents a critical evaluation of the functional parameters of the software. The following are the positive and negative aspects of the applications evaluated and compared to the available free downloadable programs with paid programs. The last part focuses on the possibility of integrating geo-information systems on the platform of smartphones and tablets in teaching primary and secondary schools. Their use in teaching could change students' view of current spatial information systems and could increase their popularity and practical use.

**Key words:** Mobile GIS, smartphone, tablet, GPS, mobile operating systems, iOS and Android.