

**Marking of tourist trails, Cartography and GIS analysis
(On the example of the Samtskhe-Javakheti region)**

George Melikishvili

e-mail: Giorgi.melikishvili297@ens.tsu.edu.ge

Ivane Javakhishvili Tbilisi state university, faculty of exact and natural sciences,
Department of Geomorphology- Geoecology, Cartography- Geoinformatics

Georgia attracts more and more tourists with its location and, the beauty of nature. Natural monuments, panoramic views or cultural sites on the territory of Georgia have increased the demand to arrange trails for tourists to move safely from the central road to the sightseeing. Therefore, it was necessary to investigate and classify the hiking trails, with the markings on the trails visitor will be able to understand the location, the distance to the object and the distance traveled, as well as the complexity of the trail. All of the above has led to the imposition of a trails marking rule to safely move around.

The cartographic method, which dates back to the 80s of the last century, played an important role in finding and planning tourist routes. Geoinformatics systems allowed us classifying trails to define their complexity, location and etc. Determine how important is the trail to develop tourism and finally mark it, which has been established in Georgia since 2016. By existing standards, hiking trails found in the Samtskhe-Javakheti region have the potential to meet the rules set out for marking, some of them can be used as a pedestrian, and can be used as bicycle and horse tracks, there will be installed in the appropriate benchmarks and prohibitions that will make it easy to move safely on the trail. The trails found in Samtskhe-Javakheti region pass through beautiful panoramic views, historical and cultural monuments that will be interesting both in recreational and cognitive terms. The trails should be identified and subsequently marked in all regions of Georgia to facilitate the creation of a unified hiking-trail path network.