ABSTRACT

The bachelors work consists of: 112 p., 7 tables, 29 fig., 2 add. and 30 references.

CONVOLUTIONAL NEURAL NETWORK, CORRECTING GPS COORDINATE, DESCRIPTOR, DETECTOR, LOCAL FEATURES.

The research and software implementation of the modern LIFT algorithm and its application in the task of correction of GPS coordinates have been carried out by comparing video with panoramic photographs obtained from Google Maps. Input data is formed: photographs and videos of a common object for comparative analysis of the algorithm.

During the study, it was found that LIFT gives better results in comparison with previous similar algorithms on the prepared data. It is planned to develop work in researches and modifications of the LIFT algorithm, to improve the qualitative and quantitative characteristics of the algorithm