

DEVELOPMENT OF A METHODOLOGY FOR AUTOMATED UPDATING MAPS OF URBAN AREAS USING COMPUTER VISION TECHNOLOGY

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Currently, satellite or aerial photographs are widely used to update maps. To speed up the updating process, some large cartographic services use computer vision systems, intelligent systems and other advanced technologies. However, the frequency of obtaining the initial data-satellite images-is still low. In this regard, the article proposes a method for updating maps of urban areas, based on obtaining initial data using ground photography and further recognition of images of buildings and structures. The article substantiates the relevance of the research topic, provides examples of the use of image recognition technology for updating cartographic materials by the largest services. The main technical characteristics of the software and hardware necessary for the implementation of the experiment according to the proposed method are also considered.

Keywords: automation, open maps, computer vision, neural networks

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