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Monitoring of illegal placement of solid waste with the use of space technology

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Abstract

© 2016, International Journal of Pharmacy and Technology. All rights reserved. This article is devoted to development and use of the space and geoinformational technologies allowing the state and municipal operating controls to carry out continuous monitoring of city and suburban territories regarding identification of unauthorized garbage dumps, to carry out control of their elimination. The purpose of the conducted research is definition of optimum ways with minimum expenses of labor and life capabilities to carry out searching of unauthorized garbage dumps and to provide monitoring for clear and rather in settlements. Object of a research is the modern territory of Kazan and its vicinities, with a total area more than 600 sq.km, numbering inhabitants more than 1,2 million human. In work traditional geographical methods were used: cartographical, based on methodological bases of thematic and complex mapping, on achievements in the field of geoinformational technologies, comparative and descriptive, a method of the space analysis, statistical. As a result of the conducted research the technique of probability assessment of placement of municipal solid waste with use of space and geoinformational technologies which will allow to make well-timed administrative decisions is developed and introduction of expressly developed hardware and software system on monitoring and holding the actions directed to elimination of unauthorized locations of municipal solid waste is offered.

Keywords

Geographic information system, Geological interpretation, Geospatial data, Solid waste, Space images, Space technology