



XXIth International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management – SGEM 2021

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CRITERIA FOR THE INFORMATION MODEL FOR ASSESSING THE RISKS OF UAV FLIGHTS IN ENVIRONMENTAL RESEARCH ON MOUNTAIN TERRAIN

Jevcak, J.; Polishchuk, A.; Polishchuk, V.; Kelemen, M.; Choma, L.

Abstract:

In this paper we propose the criteria of an information model that will allow, based on input expert data, to derive a risk assessment of unmanned aerial vehicle (UAV) flights for mountainous environmental studies. To create an information model, it is necessary to develop a mathematical model of risk assessment and informative content of the model within the framework of the problem under study. For the model input, there is a space of mountainous terrain for which we define set of criteria as a threat to safety UAV. The purpose of the study is to study the criteria for assessing the risks of unmanned aerial vehicle flight studies in mountainous terrain, which is informative for the model. This model will allow, based on the input of expert data, to derive a risk assessment of UAV flights for study of the mountainous environment. The first such results were obtained: assembled set of risk criteria UAV flights for study of the mountainous environment; inputs are presented in the form of a linguistic assessment of the UAV flight risk realization and a quantitative assessment of the degree of risk occurrence during the UAV flight. Further study of the problem is seen in the creation of a mathematical model and algorithmic and software support for assessing the risks of UAV flights.

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