

Integrated approach to environmental impact assessment on geosystems

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Abstract

© 2016, International Journal of Pharmacy and Technology. All rights reserved. This article discusses the use of an integrated approach to the environmental assessment and provides an analysis of different methods of quantitative evaluation of anthropogenic impact on the environment. A method that minimizes the subjectivity of the evaluation is proposed. Special attention is paid to the algorithm used for selecting the most relevant characteristics for the integrated assessment of the human impact. The combination of the basin approach, GIS technologies, statistical methods and mathematical modeling makes it possible not only to quantify the human impact on the environment, but also to determine the contribution of individual industries as well as to evaluate the quality of the assessment.

Keywords

Anthropogenic impact, Environment, Geographic information systems, Integrated assessment, Nature management, Spatial analysis