

Название публикации:

Innovative system of estimation of investment projects of development of subjects of regional economic complexes on the basis of combined methods of computer optimization

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Аннотация:

The article describes step by step the mechanism for creating a system for evaluating economic projects based on a combination of computer and linear optimization methods in the Wolfram Mathematica system. The proposed model is the modernization of the model of optimal planning of academician L.V. Kantorovich, where a new product is added, which is relevant for a market economy, is money. Another innovation of the model is the possibility of calculating the optimization task for any number of periods. On the basis of an automatic analysis of objectively determined estimates of the dual problem of linear programming, a method for optimizing public investment in projects is proposed. A number of experiments are carried out which, in clear conditional examples, show how different optimization criteria can influence the solution of the problem and what consequences they can lead in various aspects of the economic environment under study. It is assumed that the developed system can be included in a network of situational centers to optimize management decisions at the level of large industrial enterprises, regions or the whole country.

Ключевые слова:

Linear programming, Long-term planning, Project economy, Project evaluation, Project optimization, Public sector, Regional economy, Wolfram Mathematica