Informatika i sistemy upravleniya. – 2017. – No. 3(53). – P. 24-35.

Zatik O.S., Zatik S.I., Dmitriev V.M. (mitriewvm@gmail.com), Davydov N.I.

Tomsk State University of Control Systems and Radioelectronics

**FUNDAMENTAL MODEL OF ECONOMIC AND ECOLOGICAL SYSTEM DYNAMICS FOR
COMPUTER MODELLING AND FUNCTION-VALUE ANALYSIS OF COMPANY ACTIVITY**

The paper describes fundamental model of economic and ecological system dynamics for computer modelling and function-value analysis of company activity. The system model is represented as component circuits. The main control levels of the model are products, functions, environment conditions, resources, funds, and profits. This model provides the solution of a local task which is the distribution of the enterprise capacity based on its demands, product requirements and a global task of economic and ecological regulation.

Keywords: multi-level computer model, component circuits method, mathematical modelling, simulation modelling, function-value analysis, reengineering.

DOI: 10.22250/isu.2017.53.24-35

For citation:

Zatik O.S., Zatik S.I., Dmitriev V.M., Davydov N.I. FUNDAMENTAL MODEL OF ECONOMIC AND ECOLOGICAL SYSTEM DYNAMICS FOR COMPUTER MODELLING AND FUNCTION-VALUE ANALYSIS OF COMPANY ACTIVITY // Informatika i sistemy upravleniya. – 2017. – No. 3(53). – P. 24-35.