ABSTRACTS

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SIMULATION OF ANALYSIS SYSTEM OF LOCAL OF REACTION OF PRODUCTION PROCESS AT FLUCTUATIONS VARIABLE FACTOR

The article focuses on the investigation of the behavior of economic entities in terms of volatility and cyclical temporal classes of economic dynamics. Quantitative representation of the dynamics of economic behavior is peculiar. Cycles could occur not only in the time behavior separately investigated the economic process, but also in the evolution of the parameters of the relationship between economic indicators. Search, detection of cycles, the degree of association study points to the values of the time parameters could be performed only in the application of new methods of economic analysis.

The aim is to design and practical implementation of experimental framework for analysis of the local response to fluctuations in the production process factor variable factor analysis on the example of the production program. To achieve this goal it is necessary to solve the following problems: determine the factor variable influencing the results of the production program; reveal the essence of the methodological approach to objective assessment of critical values of external or internal parameters of the production system; perform practical experimental implementation based on the methods of economic-mathematical modeling and computer technology.

In the work was used modern mathematical methods of economic cyclomatic, approximation methods, splines and approximation theory is to determine the presence or absence of cyclical dynamics of economic performance in industrial applications; complementary econometric regression relationships and provide the opportunity to work with multitask econometric functions where parameter stands time; make it possible to more reliably and accurately simulate, analyze, predict the behavior of economic entities in terms of randomness.