

## ALTERNATIVE OF MANAGER

*Yurii V. Koliada<sup>1</sup>, Tetiana V. Kravchenko<sup>2</sup>*

*Kyiv National Economic University named after Vadym Hetman,  
Kyiv, Ukraine*

*<sup>1</sup>jukol48@ukr.net, <sup>2</sup>ktv19@ukr.net*

Problems arise with absence of good, adequate and timely governance.

Decision-making person (DMP) must have current and preventive information, in addition to own experience, intuition and expert knowledge. That is, given of the current situation to look into the future – provide for the development and predict the consequences. The only tool for providing DMP information of this rank is the mathematical (computer) modelling of the dynamics of economic processes.

Management of any object of economic activity, more general economic system connected with the strategy of evolution (the achievement of the long-term goal) and tactics that is a sequence (rational and relevant) of the implementation of strategic ideas in the conditions of the speed of events. Sometimes it has kaleidoscopic character but always is associated with transformations, somewhere in the global ranks. In order to avoid spontaneous structural changes, one must be able to describe mathematically the mechanisms of the dynamics of events of the current moment by obtaining the equations of economic and mathematical models and their further research – developing a trajectory for economic development in the presence of certain conditions. When modelling several the restrictions of the components of the evolutionary process are clarified. Also, the control parameters of the object of economic activity which have an area of effective action are distinguished. In general, the interval of operation of an economic object consists of areas of latency, tolerance and aggravation of the regime which is impossible to predict. The flex path of economic development is surely recognized on the basis of modelling of the nonlinear dynamics of evolution.

We have to admit that the stage of verbal knowledge of the properties of the object of economic activity has been delayed. It should be replaced with imitation modelling that is possession of applications of the computer software packages (CSP) which be accessible to a wide range of user researchers. Of course, there must be a customer of such a software product. Also, the consumer himself should have an urgent necessity in the indicated.

In addition to nonlinearity and disequilibrium the economic system inherited irreversibility of its development which serves as an additional reason to focus on conducting computational experiments in economics. Scientific literature has long been used the terms computational physics, chemistry or geometry, etc. Now the era of computer economics (or experimental) is coming and it requires the creation of dynamic mathematical models of mechanisms, phenomena and processes in accordance with the needs of economic practice. Having a powerful variety of states objects of economic activity is classified the toughest for which in the theory of systems the law established Ashby.

Regarding the economic and mathematical modelling of nonlinear economic dynamics its analogue is formulated [1] whereby create plural of dynamic models on grounds which to build flexible, adequate situation of calculation model. After that a qualitative analysis of adaptive dynamic model that examining the structural (parametric and phase) portrait. The next step is a quantitative analysis of the model.

The described procedure of actions provides a profound analysis of economic evolution taking a various scenarios of possible behaviour object of economic activity. The resulting information in this way will facilitate the right decision of the manager (DMP). It also will reduce the role of manual control, avoiding voluntarism [tested, 2].

Thus, we must teach students of economic field to think accordingly, taking into account the noticeable and special economic community. The «Kyiv National Economic University named after Vadym Hetman» is reading the disciplines: «Adaptive model in intelligent systems of decision making» and «Adaptive model in information management systems». These courses are taught in an accessible form: background and reasons of creation, principles of constructing dynamic models, the tools of their qualitative and quantitative research. Also, developing and interpreted scenarios for the possible development of events which indicating a warning about the functioning of the components of the economic system.

#### *References*

1. Коляда Ю. В. Адаптивна парадигма моделювання економічної динаміки: монографія / Ю. В. Коляда. – К.: КНЕУ, 2011. 297 с.
2. Кравченко Т. В. Адаптивне моделювання стратегії економічного розвитку регіону: автореф. дис. ... канд. екон. наук: 08.00.11 / Т. В. Кравченко; Державний вищий навчальний заклад «Київський національний економічний ун-т ім. Вадима Гетьмана». – Київ, 2016. – 20 с. укр.