

Model of Economic Growth with Information Asymmetry and Inequality

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Abstract

The subject of the paper is the model of the economic growth of the system is proposed, taking into account the asymmetry effect of information in this system, as well as the level of income inequality between the elements of the economy. *The purpose* of the study is to obtain a model of the influence of asymmetry of information and income inequality on economic growth. And the asymmetry of information can be considered as a kind of inequality, only from information. *Methodology of the study.* The method of econometric modeling and analytical derivation of the relevant relationships describing the relationships by the parameter of the considered model is used, proceeding from the problem of determining the influence of asymmetry of information and inequality on economic growth. *Results of the study and main conclusions.* Changing the information structure affects the search for sellers and buyers. Agents are very scrupulous looking for information where you can buy a good at the lowest possible price. Information asymmetry is proportional to the ratio of information completeness of two agents. The presented analytical dependencies give results in the form of conditions for the effect of information asymmetry on the information system by comparing the system without asymmetry and with the presence of asymmetry, simplified by two agents or groups of agents. The obtained analytical dependencies allowed within the framework of the model to draw conclusions that the rate of change of inequality at different time intervals varies in different ways, and this also affects the rate of economic growth.

Keywords: *economic growth, information, inequality for income, information asymmetry, modeling of the growth*

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