

Название публикации:

The problem of general systems theory's formalization

Авторы:

Serdyukova, N.a, Serdyukov, V.b,c

- a. Plekhanov Russian University of Economics, Moscow, Russian Federation
- b. Bauman Moscow State Technical University, Moscow, Russian Federation
- c. Institute of Education Management of the Russian Academy of Education, Moscow, Russian Federation

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Аннотация:

In this chapter, three basic questions are considered: what is the meaning of the concept of "formalization"? how to build a formalization, allowing one to obtain and justify meaningful results in the General theory of systems, not limited to empirical reasons? how to interpret the results of General systems theory to specific spheres of human activity, such as the General theory of training, IT-technology, Economy and Finance, as the link with almost all types of modern human activities (e-learning, IT, economics and finance)? The key point for us here is the connection between logic and algebra. Shafarevich (Basic concepts of algebra. Izhevsk Republican Printing House, Izhevsk, 1999, [1]), observed that the present period of development of sciences is characterized by the mathematization of the science. Algebra has always occupied a leading position in mathematics.

Ключевые слова:

Algebraic systems, Formalization, Smart system theory, Economics, System theory, Algebraic system, Basic concepts, Formalization General systems theory, General theory, Human activities, It technologies, Printing house, Algebra