

## **Digital Libraries of Economic-Mathematical Models: Economic-Mathematical and Information Models**

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### **Abstract**

In a number of research organizations that used in its activities the tools of economic and mathematical modeling, as well as in large Federal and sectoral centers, having the situation room, digital libraries of economic and mathematical models or other mathematical models are supported and used. The specification of economic-mathematical and any other mathematical model consists of the formal part described by mathematical language, and informal, defining designations used in its formal part. The article shows that the formal part of the model is a formal conceptual model of the modelled object, and the informal part is nothing other than its informally described ontological model (ontology). Thus, economic-mathematical and other mathematical models are a two-level hierarchy of information models. The information model is one of the key concept in computer science. Information systems for any purpose are based on information models. Also the systems of economic and mathematical modeling are based on such models.

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**Keywords:** *information model, mathematical model, economic-mathematical model, conceptual model, ontological model, ontology, datalogical model, formal language, mathematical language, digital library*

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