

09.06.01 Informatics and Computer Engineering

Management in Social and Economic Systems

Program objectives

theoretical and applied research of systemic connections and patterns of functioning and development of objects and processes in the economy and society, taking into account industry-specific features, focused on improving management efficiency through the development and use of methods of management theory and decision-making.

Search for solutions of research and technical challenges for the national economy is vital for the increase of the efficiency and reliability of socioeconomic macrosystems through developing new and improving existing structures, mechanisms and models for their management.

Moreover, researchers should significantly consider the human factor, which is expressed in the active influence of the controlled system on the management process.

Program peculiarity

interdisciplinary nature of the program expressed in development and application of various methods of social and economic sciences, including the fields of education, law, defense, health and environmental protection, issues of analysis, modeling, optimization, improvement of management and mechanisms making decisions in organizational systems.

Key research areas:

- theoretical foundations and methods of management theory and decision-making
- formalization methods and formulation of management tasks
- models for describing and evaluating the effectiveness of management and decision-making systems
- methods and algorithms, special mathematical tools and software for solving management problems and decision-making
- identification methods in organizational systems based on retrospective, current and expert information.
- methods and algorithms for predicting assessments of the effectiveness, quality and reliability of organizational systems.