

Development on the basis of system analysis and game theory of new distribution and control methods for limited resources

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Research is devoted to the mathematical modeling of processes in the field of ecology and sociology, and to the development of new methods of game theory. Ecological and sociological problems are closely connected, and their solving requires the system approach. The gaming approach which allows taking into account the aims of different social groups is proposed. Ecological models are based on problems of flows control in networks of complex structure. The new methods of finding optimal control, taking into account the ecological problems which lean for game theory approaches, are developed.

Development can be introduced in the process of modeling the different parties fight for electorate, industrial firms fight for markets of sale, estimations of consequences of parliament factions, taking their numbers into account.