

SYSTEM AND INFORMATION DYNAMIC COMPONENTS AND LOGICAL-COGNITIVE MODELS OF TEMPORAL REALITY IN MAKING OPERATIONAL DECISIONS

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The interest in the phenomenon of psychological time is due to the active principle of human life and the basic need of the individual to be the organizer of his/her own living space. This phenomenon is of utmost importance at the time when a person faces important decision making, especially within a short time interval in stressful situations.

The purpose of the article is the exploration of problematic task of evaluating the time perception in arriving at goal-oriented solutions by the automated control systems provider.

The object of research is time.

The subject of the study is formation of operational decisions.

Novelty lies in the description of the logic-cognitive model of decision making in the context of the target space of time, which is based on the composition of two types of components, that is: the component of the logical data processing and cognitive component. The first type includes information to select the strategy of human behavior under conditions of threats, the second one incorporates incomplete and unclear polytypic data that reflect the operational situation.

The practical value lies in the approach considering the man as a system creature whom a temporal structure (individual immanent dynamic layer which is based on physiological processes and activities including conscious and unconscious diverse structures and mechanisms) is inherent. Thus, it is possible to predict the timing of the final objective goal-oriented solutions and implement appropriate actions planned.

Conclusion. In the paper we analyzed and showed that the cognitive structure of the individual contains immanent temporal layer of personality that deepens with the development of consciousness. Due to the temporal structure a people have the capability to constructively - in accordance with the terms of the technological situation – take their bearings in temporal space: objectively reflect in mind the duration and the sequence of phenomena; refer to their own experience; simultaneously predict and design the future; apprehend and influence upon certain events; and use their own history in present modus by means of subconscious mechanisms, which allows to build brand new experience in the current moment.

Keywords – logical and cognitive model, time interval, temporal structure, information, data processing, situation.