Directions for control operations intellectualization applicable for operational space flight control

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The paper focuses on some particularities of the present system of control over implementation of flight operations and space vehicle condition. The study gives the examples of the most effective application of artificial intelligence in logical games. Promising directions of control operations intellectualization applicable for efficient space flight control were presented. Contemporary methods of intellectual analysis in different fields were considered. As a result, we suggested the directions of intellectualization which are the most satisfying for creating the base of prospective software applications for analysis of telemetric information with the use of special mathematical apparatus. Stated principles of using cluster and wavelet analysis for automatization of tendency detecting process are directed to solve control missions and space vehicles condition predicting.

Keywords: *space vehicle, flight control, telemetric information, intellectualization, artificial intelligence, control and condition analysis*

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