

System and Technical Development Aspects of the Ground-based Automated Control Complex for Spacecraft of Scientific and Socioeconomic Purposes and Measurements until 2025

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Abstract. The peculiarities of spacecraft control perspective technologies and main trends in their practical usage, as well as arising problems, are examined. The following spacecraft control technologies are considered: ballistic and navigational provision, information-telemetric support, control via satellite relays, and integration of spacecraft data communication channels. Moreover, a preliminary plan for perspective technologies realization and the image of a perspective ground-based automated control complex for spacecraft of scientific and socioeconomic purposes and measurements is substantiated.

Key words: ground-based automated control complex for spacecraft of scientific and socioeconomic purposes, information support technology for spacecraft control