

Session 1. Scientific and technological experiments on small spacecraft

**SCIENTIFIC AND TECHNICAL ASPECTS OF NAVIGATION SYSTEMS
FOR AUTONOMOUS AND MANNED MARS ROVER VEHICLE**

V. A. Akulov, P. K. Kuznetsov

Samara State University, Samara, Russia

The necessity of establishing a system for autonomous navigation and manned rovers is proved. The preliminary results of the analysis of some possible schemes and navigation technologies, including strong specifics nature Mars: the atmosphere presence and the horizon line proximity are shown.