

# **Approaches to creation and directions of small-scale space vehicles**

# **for application in space activity**

O.M.Alifanov, A.A.Medvedev, V.P.Sokolov

## **The summary:**

In the article innovative approaches to small-scale space vehicles development on an example of the Earth remote sensing satellite "MONITOR-E", created on the basis of the unified space platform (UKP) "Yakhta" are described. Correctness of the put in pawn and chosen principles and the constructive-technological decisions in working out of the considered objects is confirmed. Characteristics of the "MONITOR-E" and UKP "Yakhta" are given. The application of small-scale space vehicles in space activity is described.

## **Keywords:**

small-scale space vehicles; unified space platform; Earth remote sensing satellite

Alifanov Oleg M., professor of Moscow Aviation Institute (National Research University) dean of the Aerospace faculty, head of 601 department, Doctor of Engineering Science, , Associate of RAS.

MAI, Volokolamskoye shosse, 4, Moscow, Russian Federation, A-80, GSP-3, 125993; phone: (499) 158-58-65; e-mail: oalifanov@mail.ru

Medvedev Alexander A., vice-president of the JSC "IRKUT scientific and production Corporation", Doctor of Engineering, professor.

IRKUT Corporation, Leningradsky prospekt, 68, Bldg. 1, Moscow, 125315, Russia; phone: +7 (495) 777-21-01; e-mail: amedvedev@irkut.com

Sokolov Vladimir P., head of the "Innovative technology of aerospace activity" department, vice-rector in science work of Russian state university for innovative technology and business, Doctor of Engineering, professor.

RSUITB, Novaya Basmannaya str., 9, Moscow, 107078, Russia; phone: +7 (495) 618-65-70; e-mail: Vladimir.Sokolov@itbu.ru