

## SPACE RESEARCH: GRAVIINERTIAL INSTRUMENTS

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**Abstract.** The paper considers some instrumental developments carried out by IPE RAS in cooperation with IKI RAS and other organizations of the Russian Space Agency for graviinertial measurements on spacecrafts, satellites and the Solar system planets. The instruments described are used for satellite accelerometry, gradientometry (precision accelerometer measurements on the spacecrafts and stations “Progress”, “Salyut”, “MIR”, “ISS”), Earth remote sensing, measurement of seismogravity fields of the Solar system planets (the projects “Phobos-Grunt”, “Sunny Sail”, “MetNet”, “Luna-Resource”, “ExoMars”).

**Keywords:** space research, graviinertial measurements, satellite accelerometer, seismogravity measurements.