

Contents

Systems Analysis, Spacecraft Control, Data Processing, and Telemetry Systems. Earth Remote Sensing

Substantiation of a Method for Implementing an Orbital Component in the Automatic Control System of Multi-Satellite Spacecraft Constellations <i>Strelnikov S. V., Malyshkin I. A.</i>	3
Analysis of the Technical Resource Components of a Multi-Satellite Orbital Constellation <i>Kovalenko S. I., Potyupkin A. Yu.</i>	17
Quality Control Automation for Radar Data within the ERS Space System Operator's Processing Environment <i>Stelmukh N. S., Peshkun A. A.</i>	28
Modeling the Research and Development Process for Complex Space Systems Under Uncertainty <i>Levchenko K. D.</i>	38

Space Navigation Systems and Devices. Radiolocation and Radio Navigation

Feasibility Study of Implementing ARAIM Technology to Ensure GLONASS Navigation Integrity <i>Syatkovskiy R. B., Yaroshenko A. I.</i>	47
Detection and Localization of Subpixel Linear Objects in Low-Resolution Satellite Images <i>Grishin V. A.</i>	56

Radio Engineering and Space Communication

Formation of Multiple Signals with a Polarization-Extended Constellation <i>Kulikov G. V., Kostin M. S., Jamanov D. N.</i>	66
Phase Noise Performance Comparison of Asymmetric and Symmetric Oscillators Under the Influence of Low-Frequency and High-Frequency Power Supply Noise <i>Borisov V. A., Zaslavsky B. O., Meshkov B. A.</i>	74
Evaluation of the Impact of Linear Frequency-Modulated Signal Distortions on the Characteristics of the Convolved Signal <i>Polishkarov V. S.</i>	83

Solid-State Electronics, Radio Electronic Components, Micro- and Nanoelectronics, Quantum Effect Devices2

Requirements for a Microrobot-Based Mobile Defect Detection System for Space Solar Arrays <i>Vasilyev F. V., Zhukov A. A., Sleptsov V. V.</i>	89
Specific Features of Testing Flash Memory Integrated Circuits for Tolerance to Irreversible Single-Event Effects <i>Zinchenko V. F.</i>	96