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| Nota di contenuto | Method for Monitoring the Metrological Suitability of Measuring Instruments of Conformity Assessment Bodies -- Development of Software and Hardware for Wireless Sensor Networks Based on the CoAP Protocol -- Features of Electromagnetic Quantity Meters Calibration in the Full Range of Values -- Method of Increasing the Accuracy of Spatial Coordinates Determining Using a Coordinate Measuring Arm -- Determination the Informative Parameters of Harmonic Signals Analytics and Modelling -- Chaos Control System of the Granulation Process of Mineral Fertilizers in a Fluidized Bed -- Control System for Mineral Fertilizer Production in a Fluidized Bed Granulator with a Fuzzy Controller -- Alternating Electric Field for Non-Contact Space Debris Displacement and Processing -- Information System for Certifying UAV Operations within the Intelligent System Concept Control TE. |
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Technologies of the National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute” and the General Energy Institute of the National Academy of Sciences of Ukraine. It presents the main scientific directions and issues of our joint research. The presented results of scientific research are not just solutions to classic problems of information and measurement technologies, but they also represent a leap into the future. The prediction of the metrological reliability of information and measurement systems, the features of the calibration of measuring devices and systems for measuring the parameters of electrical quantities, the development of methods for increasing the accuracy of coordinate and measurement systems and the accuracy of measuring the characteristics of harmonic signals in the time and frequency domain, the construction of software and hardware for measurement channels of systems, as well as applied tasks of information technologies—control of the fertilizer granulation process using fuzzy algorithms and chaos theory, and methods of using variable electromagnetic radiation for non-contact movement and processing of space debris, all showcase the ground breaking and exciting innovative potential of our research.
