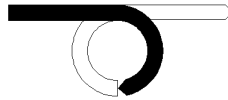


The 11-th International Conference on Control “Avtomatika-2004”

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The 11-th International conference on automatic control “Avtomatika-2004” was held in Kiev, September 27-30 on the basis of National University of Food Technologies.

Organizers of the conference

Ministry of Education and Science of Ukraine, National Academy of Sciences of Ukraine, Ukrainian Association of Automatic Control, National University of Food Technologies, Institute of Space Research NAS of Ukraine and NSA of Ukraine, the V.M. Glushkov Institute of Cybernetics NAS of Ukraine, International Research and Training Center of Information Technologies and Systems of NAS of Ukraine and of Ministry of Education and Science of Ukraine, Scientific Production Complex “Kiev Institute of Automatics”, National Technical University of Ukraine “Kiev Polytechnical Institute”, Ministry of Education of Russian Federation, Russian National Committee on Automatic Control, the M.V. Lomonosov Moscow State University, Belarus Association of Control and Management.

Conference objectives

Analysis and generalization of theoretical and applied results of investigations in the field of development and creation of high-quality control systems of modern and promising objects.

The following sections worked during the conference.

1. Mathematical problems of control, optimization and game theory.
2. Control and identification under uncertainty.
3. Automatic control in engineering systems.
4. Control of aerospace and other moving objects.
5. Control in natural, social and economic systems.
6. Promising information technologies and intellectual control.
7. Problems of staff training for automation of production.

More than 300 participants took part in the conference, including representatives of Russian Federation, Belarus, Poland, Uzbekistan. At 3 plenary meetings 7 reports were made. The greatest interest was aroused by the following reports:

- academician of RAN A.B. Kurzhansky “Methods of dynamical optimization in problems of objective control”;
- professor B.N. Kiforenko “Problem of interpretation of properties of optimal control invariant relative to control objective and performance criterion”.

The largest number of reports (more than 100) was presented in 6-th section.

Program committee of the conference highlighted a number of reports, which caused lively discussion, namely the following:

- Kovtun I.V. “Search of a part of the optimal solution in problems of division”;

- Lychak M.M., Maksimuk L.V. “On uncertainty of tangent displacements in problems of shape control of thin solid mirror of space telescope”;
- Romanenko V.D. “Prediction of dynamic properties by means of parameters of the diverse temp discrete model of multidimensional object with different and variable delays under perturbations with unknown constraints”;
- Mazmanishvili A.S., Sidorenko A.Yu. “Investigation of control stability of roughness parameters for processed optic surfaces relative to errors of mechanical processing”;
- Lebedev D.V. “On a problem of description of spiral motion of a rigid body”;
- Oliyarnik B.O. “Onboard system of automatic control of modern tank”;
- Rudenko A.V. “On a test problem of the theory of hybrid systems”;
- Gritsenko V.I. “Problem orientation of the direction “Progressive information technologies”;
- Zgurovskiy M.Z., Pankratova N.D. “Risk analysis in problems of technical diagnosis”;
- Sokolov B.V., Yusupov R.M. “Structural mathematical and category functor approaches to quality assessment of models and polymodel complexes”.

The section dealing with training of experts in the field of automation of production in higher educational establishments of Ukraine was organized for the first time.

The conference “Avtomatika-2004” was held on a high scientific level and showed modern state of art of investigations (first of all in Ukraine) in the field of theory and practice of control.

Terms and place of holding the next conference “Avtomatika-2005” will be announced by the National Committee of Ukrainian Association on Automatic Control later.