

## **XXIV-th International Conference on Automatic Control “Automation-2017”**

The international conference on automatic control is held annually on the initiative of Ukrainian Association of Automation Control (UAAC) since 1994.

In September 13–15 Kiev National University of Life and Environmental Sciences of Ukraine held the XXIV-th International Conference on Automatic Control “Automation-2017” devoted to the University’s 120-anniversary.

The goal of the conference was the discussion of research and developments results in the area of control of different nature complex objects, the discussion of trends of the control science development, setting up scientific contacts, involvement of talented young people into scientific research.

Among the conference organizers there were National University of Life and Environmental Sciences of Ukraine, Ministry of Education and Science of Ukraine, National Academy of Science of Ukraine, Warsaw University of Life Sciences, V.M. Glushkov Institute of Cybernetics of NAS of Ukraine, Institute of Space Research of NAS and SSA of Ukraine, International Research and Training Center of Information Technologies and Systems of NAS and MES of Ukraine, Ukrainian Association of Automation Control, Representative office of Polish Academy of Sciences in Kiev.

The topics of conference were presented in eight sections.

1. Mathematical problems of control, optimization and game theory.
2. Control and identification under uncertainty conditions.
3. Control of technical, technological, biotechnical objects.
4. Control of aerospace, marine and other moving objects.
5. Intellectual control and information processing.
6. Mechatronics and robotics.
7. Information technologies in automation.
8. Personnel training in the field of automation and information technologies.

At seminars meetings of sections and two plenary sessions around 180 scientists and specialists of leading scientific centers of Ukraine, Poland and Canada made presentations and participated in their discussion.

Of great interest were the plenary papers:

Physical-mathematical theory of hyper-random phenomena (I.I. Gorban), Reduction of model order of large dimension system (V.F. Gubarev), Unified national synchro-information system — high-tech

structure of automation (V.V. Koval), Estimations of bounded disturbances impact on nonlinear discrete systems (V.M. Kuntsevich), Efficiency of forming a complex of control mechanisms in automation systems of technological complexes (A.P. Ladanyuk), The development of highly reliable software systems (A.A. Letichevskiy), Features of automation systems of biotechnical objects of agricultural trend (V.F. Lysenko).

The participants of conference got acquainted with results of practical activity of the best high-tech enterprises in Ukraine:

- PSC “Enterprise Teplichnyi” (the production of agricultural products; high level of automation and quality of made products);

- “Coda”, C — Engineering, Siemens, Bunge Ukraine (the development of specialized automation systems for agricultural needs and processing industry).

At the closing session of conference the National Committee of UAAC stated a high scientific level of conference, pointed out the fact that the conference had become a noticeable event for scientists and specialists engaged in scientific and applied aspects of designing and creating control systems for different purposes, expressed gratitude to staff of National University of Life and Environmental Sciences of Ukraine for the well organized running of conference and made the decision on holding the next conference on automatic control “Automation-2018” in the city of Lvov at National University “Lvivska Politehnika” in September 2018.

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