

## The Twentieth International Conference on Automatic Control “AUTOMATICS–2013”

**D.V. Lebedev<sup>1</sup>, V.L. Timchenko<sup>2</sup>**

<sup>1</sup>*Doctor of technical sciences, head of the department of International Research and Training Center of Information Technologies and Systems of National Academy of Sciences of Ukraine and Ministry of Education and Science of Ukraine, Kiev*

<sup>2</sup>*Doctor of technical sciences, professor of Admiral Makarov National Shipbuilding University, Nikolaev*

International conferences on automatic control are initiated by Ukrainian Association on Automatic Control (UAAC) and held annually since 1994.

In September 25–27 on the basis of Admiral Makarov National Shipbuilding University the town of Nikolaev held XX International Conference on Automatic Control “AUTOMATICS–2013”. The conference was devoted to 100- birthday anniversary of the outstanding Ukrainian scientist in the field of technical cybernetics, Academician of National Academy of Sciences of Ukraine A.G. Ivakhnenko.

The goal of the Conference is the discussion of research and development results in the field of control of complex objects of different nature, discussion of development tendencies in the control science, establishment of scientific contacts, involvement of talented young people in scientific investigations.

The organizers of Conference were National Academy of Sciences (NAS) of Ukraine, Ministry of Education and Science (MES) of Ukraine, Ukrainian Association on Automatic Control, National Committee of Russia on Automatic Control, V.M. Glushkov Institute of Cybernetics of NAS of Ukraine, Institute of Space Research of NAS and SSA of Ukraine, International Scientific-Educational Center of Information Technologies and Systems of NAS and MES of Ukraine, Moscow M.V. Lomonosov State University, Admiral Makarov National Shipbuilding University, Academy of Sciences of Shipbuilding of Ukraine.

Subject matters of the Conference were presented in six sections.

- Mathematical problems of control, optimization and game theory.
- Control and identification under uncertainty conditions.
- Automatic control in technical systems.
- Control of aerospace, marine and other moving objects.

- Information processing in complex systems, intellectual modeling and control.
- Training the staff in the field of control, automation and information technologies.

The Organizing Committee selected more than 200 papers on all thematic areas. They contain a wide range of matters referring to analysis and synthesis of systems of automatic control, new information technologies and systems being developed in interests of science, technology, medicine, economy.

The Conference was opened by the rector of Admiral Makarov National Shipbuilding University, Doctor of technical sciences, Professor S.S. Ryzhkov and the Chairman of UAAC, Academician of NAS of Ukraine V.M. Kuntsevich.

150 scientists and specialists from leading scientific centers of Ukraine, Russia, Azerbaijan, Spain and Ecuador delivered talks and participated in their discussions at the meetings of sessions and three plenary meetings.

Of great interest were plenary papers devoted to scientific activity and creative heritage of Academician of NAS of Ukraine A.G. Ivakhnenko (V.M. Kuntsevich, V.S. Stepashko), to resolution of the most urgent problems of modern control theory (V.M. Kuntsevich, A.B. Kurzhanski, A.A. Chikrii, S.M. Onishchenko), applied problems of automatic control (V.S. Blintsov, Yu.V. Krak, D.V. Lebedev and others), promising trends of research (Yu.D. Zhukov, P.F. Pakshin).

Papers recommended for publication will be published in scientific-and-technical editions: “International scientific-and-technical journal “Problems of control and informatics”, “Bulletin of NUK” and “Scientific papers of NUK”.

A cultural program of the Conference included visiting the museum of Admiral Makarov National Shipbuilding University, subject excursions “Nikolaev is the town of shipbuilders” as well as National historical and archeological park “Olvia”.

At the closing session National Committee of UAAC stated the fact of high scientific level of the conference and pointed out that the conference became a noticeable event for scientists and specialists whose activity is related to scientific and applied aspects of designing and creating control systems of different purposes, expressed gratitude to the staff of Admiral Makarov National Shipbuilding University for good conference organization and running and made the decision on holding the next conference on automatic control in September 2014 in Kiev on the basis of National Technical University “KPI”.