

## **The results of the All-Russian Scientific and Technical Conference on Microelectronics MES-2018 have been summed up.**



On October 4, the All-Russian Scientific and Technical Conference "Problems of Development of Advanced Micro and Nanoelectronic Systems - 2018" finished its work in Zelenograd. The event was held with the participation of the first full-growth anthropomorphic robot Alice Zelenogradova.

The participants of MES-2018 evaluated the state of Russian microelectronics and sent recommendations to the Ministry of Education and Science of the Russian Federation.

- To ensure import substitution, it is necessary to get rid of the complete monopoly of foreign CAD systems (computer-aided design tools) in domestic enterprises. Now there is a complete information dependence of the Russian electronics industry in the field of specialized CAD systems from foreign countries;
- Russian departments: the Ministry of Education and Science, the Ministry of Industry and Trade and the Russian Academy of Sciences began to pay more attention to the problem, to prepare projects and programs for developing domestic CAD systems;
- Lack of design centers, where any manufacturer can get access to software at a low price, slows down the development of the industry;
- Lack of qualified specialists who know modern methods of computer-aided design of micro- and nanoelectronic circuits and systems.

Following the conference, it was decided to give several recommendations to the Ministry of Education and Science of Russia:

- Initiation of a federal program for the development of domestic microelectronics in order to achieve technological and informational independence of Russia, including the creation and production of its own technological equipment, the modernization of existing microelectronic production facilities, the development of domestic CAD systems, the organization of collective use centers, etc. ;
- In particular, the Conference draws attention to the need of creation of a federal program for the development and commissioning of a national integrated CAD

VLSI and SoC prepared for the transfer of projects to specific enterprises for manufacturing.

- To expand the number of budget places in universities in specialties related to the automated design of micro- and nanoelectronic circuits and systems.