

Announcement «China International Import Expo» exhibition

November 5 – 10, 2022 **Participation in absentia** Shanghai, China National Exhibition and Convention Center (NECC)

About the exhibition

The exhibition is dedicated to the implementation of the foreign high-tech technology and products that are imported to China. The accent of the exhibition is put on high-tech production equipment and new production areas of strategic importance. The goal is to increase the effectiveness of Chinese organizations.

Thematic sections of the exhibition:

- automotive industry;
- high-tech equipment and information technologies;
- medical equipment and medicine;
- consumer products;
- trade-in services;
- food and agricultural products.

The event is sponsored by the Ministry of Commerce of the People's Republic of China and Shanghai Municipal People's Government under the aegis of the World Trade Organization and the United Nations Industrial Development Organization.

At the exhibition BSUIR will demonstrate high-tech innovations

Control and measuring microwave devices and equipment in the frequency range from 0.01 to 220 GHz and above, used for maintenance and repair of communication stations, replacement of the outdated material and technical base of enterprises of the telecommunication industry. The equipment is included in the Registers of measuring instruments of the Republic of Belarus and the Russian Federation.

Metrological services: calibration of measuring instruments, testing of modules and units, material property research, software development for microwave devices.

Radio altimeters for ensuring accurate takeoff and landing of large-sized unmanned aerial vehicles. The main advantages include millimeter wavelength range, high speed of information update, all-weather resistance, minimal dimensions and weight.

About the developer

Wear-resistant antireflection composite aluminum-based coatings for masking in infrared range

Such coatings can be used to mask various facilities from night vision devices, or to provide additional protective and decorative features for coatings in automotive engineering, or to improve image contrast of indicator devices in cars and planes.

About the developer

Hardware and software complexes for ensuring electromagnetic compatibility (EMC) of radioelectronic equipment

The complexes are dedicated for analyses and EMC implementation in local airborne and ground-based radioelectronic groupings, generation of specifications for airborne and ground-based radioelectronic complexes while taking into consideration the EMC requirements, as well as for modeling of radio reception in a complex electromagnetic environment.

Below are the hardware and software complexes:

1. EMC-Analyzer is a specialized expert system for analyses of electromagnetic compatibility of radio electronic equipment in local airborne and ground systems at all stages of the life cycle: design, development, operation, modernization.

2. ADFTS is a technology and automated dual-frequency sensing system.

3. DNA-EMC is a technology and software for discrete nonlinear analyses of EMC of radio systems in a complex electromagnetic environment.

4. GIS-RF is a specialized geoinformation technology for solving tasks of frequency spectrum usage control, as well as for solving EMC problems in complex territorial groupings of radio systems.

5. VTA EMC is a virtual polygon for the analysis of electromagnetic compatibility in complex territorial groupings of radio systems of various services.

Advantages:

- the products surpass significantly analogues in terms of nonlinear effect simulation in radio receivers at a complex electromagnetic environment;
- the possibility of simultaneous joint analysis of a huge number of parasitic electromagnetic connections of various nature is implemented;

- EMC analysis on the basis of a system criterion that considers the combined influence of parasitic electromagnetic couplings of all types in the onboard grouping of radioelectonic devices;
- high operation speed and practical efficiency, a significant increase in quality and cost reduction for the design of complex objects (aircraft, ships, etc.).

About the developer