

IX INTERNATIONAL CONFERENCE FOR YOUNG RESEARCHERS

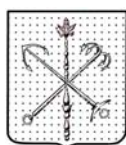
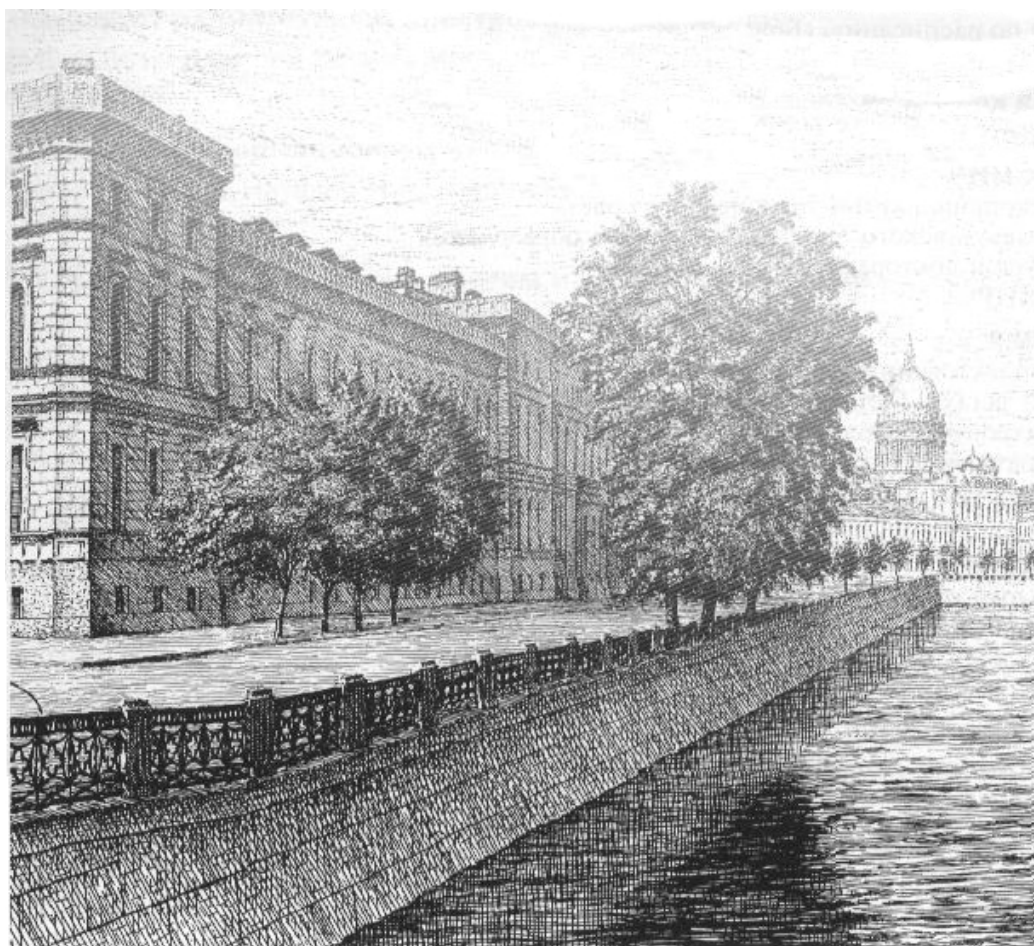
Wave Electronics and Its Applications in the Information and Telecommunication Systems

SPONSORS AND ORGANIZERS

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PROCEEDINGS



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These proceedings contain the papers presented at the Ninth International Conference for Young Researchers on Wave Electronics and its Applications in Information and Telecommunication Systems. The conference was held 10-15 October, 2006.

This conference, first held in St. Petersburg in 1998, provided a unique opportunity for young researchers to meet their colleagues throughout the world and to discuss recent advances in wave electronics, particularly in the field of optical information processing. Many discussions were devoted to acousto-optic methods of optical and radio signal processing, acousto-optic components and solid state physical acoustics. Some papers present the results of acousto-optic measurements of material properties. Traditionally the organizers have invited some experienced specialists, without age restriction, to provide overview lectures so that the new generation of scientists and engineers could get acquainted with the latest developments in their areas of interest.

The success of this conference was due to the enthusiastic participation of many talented young specialists as well as to the tremendous efforts of the organizing committee and great support of our sponsors. Special thanks go to those who presented papers and contributed to these proceedings.

CONFERENCE ORGANIZERS:

- St. Petersburg State University for Aerospace Instrumentation,
- Institute of Radioengineering and Electronics of Russian Academy of Sciences (Moscow),
- Société Française des Microtechniques et de Chronometrie (France)

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CONFERENCE TOPICS

Topics to be considered include but not limited to:

- State-of-the-art information processing methods;
- Resonators and filters for information and telecommunication systems;
- Mathematical simulation of wave electronics devices
- Image processing in the telecommunication systems;
- New technologies based on new phenomena in wave electronics and their perspectives;
- Acoustoelectronic and acousto-optic methods for environmental monitoring and human life protection;
- Acousto-optic methods for information processing;
- Optical fiber technology applications to sensors and communication systems;
- Properties of new acoustic materials;
- Acoustic and acousto-optic methods for the investigation of materials for wave electronics;
- Spin wave theory and applications
- Wave electronic Space Application

These materials could be useful for scientists, engineers, post-graduated students, students.

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