

Research which perform the professors, staff, graduate students and students of Audio techniques and registration of information Department (AT and RI)

In 2013, the professors and staff of the Department of audio techniques and registration of information carry out research in two main areas.

1. Tools for creating, transmitting, play and record of audio and video content. (supervised by prof. V.G.Abakumov and prof. Yu.G.Savchenko).

Research interests:

- technologies of audio and video content for Mass Communications;
- Digital technologies for audio and video content transfer;
- tools for still images compression and processing;
- multimedia technologies to create audio and video content ;
- steganographic data protection using video containers;
- Video equipment for remote control in automated systems.

2. Energy Savings and electromagnetic compatibility means intended to create, transmit, playback and recording of audio and video content. (Head prof. V.V.Pilinsky).

Research interests:

- prediction the level of electromagnetic interference in the hardware creation, transmission , playback and recording of audio and video content , cinema complexes and develop recommendations to reduce them to permissible levels;
- assessment of the effectiveness of intelligent network filters against interference;
- optimization of the structure of means preparing audio and video content.

The results introduced in the educational process of the department. In particular, they are used in educational disciplines:

1. The protection of information resources.
2. Applied television Systems.
3. Power supply of telecommunication systems and electronic devices.
4. Electromagnetic compatibility of electronic means.
5. Telecommunication networks;

and other training programs according to the relevant disciplines, as well as during the development of National Standards of Ukraine harmonized with European standards.