

SPEECH LABORATORY

In the new digital world the human machine interface is evolving into more natural and more efficient ways for communicating and controlling the digital devices. In addition to the human speech there are additional information sources including gestures, facial expressions and brain's spontaneous electrical activity. We utilize the equipment to research and develop new approaches for human machine interface, which will be based on a multimodal stream of audio, video, electric and other signals.



The equipment includes:

- Soundproof room
 - Sound insulation – ISOVER FDPL 50 mm. + ISOVER Akusto 50 mm
 - Sound absorption – Echoabsorb PT 600 x 600 L
 - Showcase for visual monitoring
- Digital multitrack recorder and mixer
 - TASCAM DP-32 – 32 channel - 8 input channels, 48 KHz, 24 bit
- Omnidirectional and unidirectional high quality microphones
 - SENNHEISER Pro Audio MK 4
 - SM pro audio MC03
 - BEHRINGER ECM8000
- Electropalatograph (EPG)
 - ARTICULATE INSTRUMENTS WinEPG – 62 contact points
- Electroglottograph (EGG)
 - GLOTTAL ENTERPRISES EG2-PCX2 – 2 channels EGG
- Combined Electromyogram Electroencephalograph (EMG + EEG)
 - NEURON-SPECTRUM- 4/EPM: 4 channels EMG и 23 channels EEG
- Digital stereo camera for gesture recording
 - OTEK DVX-5F9 3D – Full HD 1080p, 5 Mpx