

BEST PRACTICE MODEL

THE SYSTEM FOR DISTANCE EDUCATION

Background

The modern telecommunication technologies offer outstanding possibilities for distance actions for management, planning, educational, healthcare activities and etc.

In particular, distance education is actively and successfully implementing in healthcare for scientific forums purposes. But searching of the new cost effective, simple and reliable technological solutions which do not depend upon high speed communication channels is still actual.

Main aims

- to work out the technological schema of the system for distance education by taking into account above mentioned claims;
- to test the system.

Solutions

Supposed system consists from two main points:

- lecturer's point;
- auditorium's point.

Lecturer's point includes:

- PC with sound cart, modem, audio microphone and dynamics;
- Internet-channel with e-mail and IP-telephony of Skype range;
- Cell phone;
- Software for creation of multimedia presentations of MS PowerPoint range.

Auditorium's point includes:

- PC with sound cart and Bluetooth, modem, audio microphone;
- wide format possibilities of audio and video information reproduction;
- Internet-channel with email and IP-telephony possibilities of Skype range;
- cell phone with Bluetooth.

The scenario of system work:

- preliminary adjustment of organizational questions;
- creation and email to auditorium of multimedia presentation by lecturer;
- the connection of lecturer's and auditorium's points at lecture's fixed time of through IP-telephony (Skype);
- demonstration of presentation to auditorium accompanied by distance lecture.

For audio information exchange (for distance lecture by itself) IP-telephony or cell phone channel can be applied. In last case auditorium translates voice through Bluetooth (phone-PC-Dynamic).

The general appearance of the system is shown at the figure.

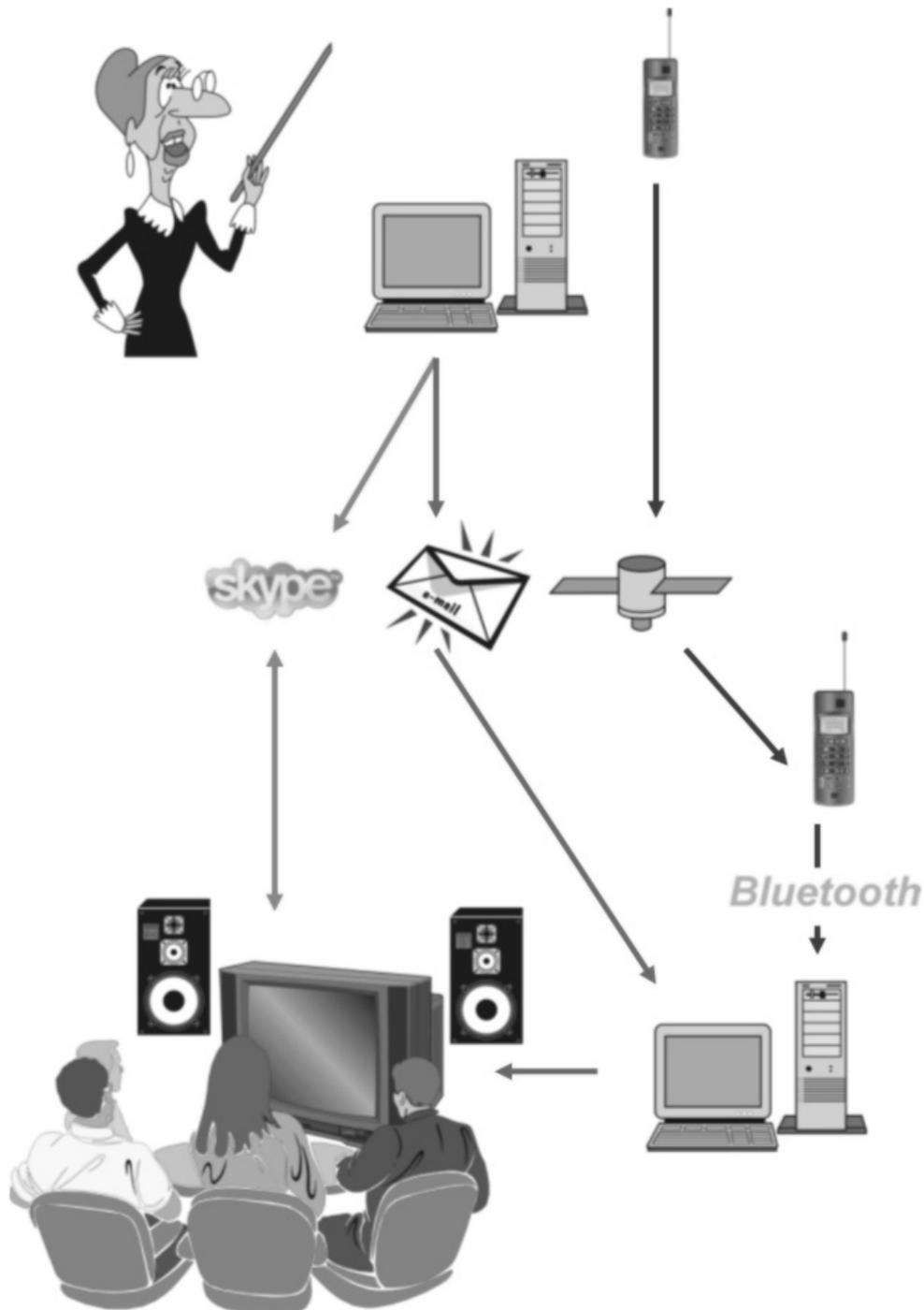


Figure. The general appearance of the system for distance education

The discussion at the end of lecture has performed by Skype or e-mail. Described system was successfully tested by the Department of Informatics and Telemedicine of Donetsk R&D Institute of Traumatology and

Orthopedy (Donetsk, Ukraine), Georgian Telemedicine Union (Tbilisi, Georgia) and Regional Clinical Medical-Diagnostical Center (Rovno, Ukraine).

The main advantages of the system:

- cost efficacy;
- technical simplicity;
- absence of the necessity to use high speed and expensive communication channels;
- reliability and accessibility;
- mobility;
- carriage of lectures in real time;
- interactivity.

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