

Multimedia Systems
Exercise No. 8

Digital Transmission of Multimedia Signals

A voice signal is to be transmitted in a digital way. The message is confidential so the transmission has to be encrypted.

1. Put the following steps in an appropriate order:

analog-to-digital, decompression, digital-to-analog, entropy coding, decryption, channel decoding, channel coding, measuring/capture, source coding, low pass filtering, transmission, encryption, playback

Note: Multiple orders are possible.

2. For each step:

- a) Describe in one sentence what happens in this step.
 - b) Do we have an information/quality loss in this step? Give a short reason.
 - c) Does this step change the size of data being processed? Give a short reason.
 - d) What is the (qualitative) delay caused by this step?
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