



Video recording, processing and publishing

motivation

We are currently recording many talks and lectures at our chair with a Canon HG-20 HDTV camera.

outline

In this work the processing chain from downloading the video from the camera over cutting resizing and multiplexing to the publishing into an appropriate video portal (hosted at our site) should be automated.

For that purpose we have a Intel Core2 Quad Q8200 PC with almost 2 TB of Storage, 4 GB Ram and Nvidia GeForce 9600 GT with 512 MB Ram.

First a fitting workflow has to be identified. We will record the beamer video and the camera image. Both must be multiplexed (and synchronized) later.

A setup for recording the tone (speaker with our Sennheiser EW-112P G2 and audience) has to be identified and established.

A probably linux based chain of scripts has to be written to collect the necessary information, to transcode the audio- and videostreams, to enhance them, to multiplex them together in an appropriate way (multi channel audio, multiple video streams/ split screen combined videos) and finally to publish the work, has to be written. The published files must be protected. An open source video publishing platform for that purpose should be identified and implemented.



requirements

Fun in video processing, Linux scripting, workflow establishment, tool research

keywords

Video processing, scripting, publishing, multimedia, digital archive

