“Evaluation of Video Summarization”
Mikołaj Leszczuk, Lucjan Janowski
Infobesity

Getting information off the Internet is like taking a drink from a fire hydrant.

Mitchell Kapor

Adapted from http://www.flickr.com/photos/josephrobertson/127758523
Videos

Automatic Summarization

Images

Documents
Multimedia Content Translation (from Arabic) and Summarization
Video Translation and Summarisation

- We need a shorter version of news
- Processing:
  - Speech
  - Text
  - Translation
  - Summary
Different Architectures (SCenarios) for Summarizing Video to Target Language

**SC1**
- Input video
- Video Based Summary
- Speech Recognition
- Machine Translation
- Video Summary

**SC2**
- Input video
- Audio Based Summary
- Speech Recognition
- Machine Translation
- Video Summary

**SC3**
- Input video
- Speech Recognition
- Machine Translation
- Text Summarization
- Video Summary
- Video Extraction

**SC4**
- Input video
- Speech Recognition
- Text Summarization
- Machine Translation
- Video Summary
- Video Extraction
How to Evaluate (Compare) Video Summarization Algorithms?
Experiment Assumptions

» **Subjective crowdsourcing test:**
  colleagues, students, other target groups

» Absolute Category Rating (**ACR**), only for relative SCenario comparison

» 9 SRCs, 4 HRCs (SCenarios), 36 PVSs

» 1 base SCR/test (9 PVSs/test)

» ~1 min/PVS, 10 min/test
## SRC/HRC/PVS Matrix

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# SRC/HRC/PVS Matrix

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Entering Test System Including Arabic Mother Tongue Check

We kindly ask you to do the test located at http://amis.kt.agh.edu.pl The purpose of this test is to find out your individual opinion on the quality of the presented video summarizations. Please assess how well we prepared the summarization. Please take into account only summarization quality. Each summarization of the video has about a minute. The test length is nine video summaries. At the end of the video summary, you are asked to rate the entire video summary. We prepared the final quality assessment on a discrete scale: bad, poor, average, good, excellent. Please select the appropriate answer and press the button to go to the next sequence. Please treat each view of the summary of the video as an independent. Video summaries cannot be undone or paused. It is not possible to display the video summary again. The total time spent on the experiment is 10 minutes, of which most of the time it will take to watch the video summaries. Please remember that this is your subjective opinion. There are no better or worse answers.

We are interested in your advice regarding the quality of summarizations!

In case of any problems please contact leszczuk@agh.edu.pl
Starting Test
“Chillout” Screen

Test material will be presented in the moment
Test Material (Video) Presentation

Syrian pounds and the estimated between one million to ten million and Gaza every year.
Assessing Quality
(TBD: Crowdsourcing Check)
Request for Participation

» Link: http://amis.kt.agh.edu.pl

» Please:
  » Find 10 min to help us
  » Circulate link among colleagues, students, etc.

» Deadline: 2 weeks (end of October 2019)