Advancement in the multimedia annotation tool ELAN

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• ELAN is a multimedia annotation tool
• freely available, sources available
• written in Java, stores data in XML
• current version 4.9.4

ELAN is a tool for multi-tier, multi-speaker, time-linked annotation of audio and video recordings

Comments framework: sharing comments and notes with colleagues

- Comments are pieces of text linked to a segment of the media and possibly to a tier
- Can be used for intermediate notes, remarks or questions
- Can be shared via email or a file sharing (cloud) service

Automatic segmentation and labelling

Algorithms for automatic segmentation and labelling implemented in two projects, AVATecH and AUVIS

Audio recognizers:
- Speech segmentation
- Speaker diarization
- Keyword spotter

Video recognizers:
- Detection and categorization of gesture units (based on the NEUROGES coding scheme)
- Recognize and extract key frames

Export to Theme format

- New export format. Theme is an application for detection and analysis of hidden patterns

Assessing interrater agreement

Calculate interrater agreement to test:
- The validity of a coding scheme
- The quality of the annotation guidelines
- The training of the annotators

New algorithms added:
- Modified Cohen’s kappa (Holle and Rein, 2015)
  Applies a matching algorithm to combine segments created by two raters and then calculates the kappa value
- Staccato (Lücking, 2011)
  Calculates a Degree of Organization by applying Monte Carlo Simulations to segmentations produced by multiple raters

The calculation can be performed on a corpus (multiple files and multiple tiers)

Comparing the segmentation and the labels of the corresponding tiers created by two annotators

The Language Archive - Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands

http://tla.mpi.nl/tools/tla-tools/elan