I like to move it move it! 
Analysing first-aid instruction videos for moving a victim

ABSTRACT

Instructions, including first-aid instructions, are increasingly made available on video. We need methods for analysing instruction videos that:

• allow comparisons with their static counterparts which use text and pictures
• support experimentation to optimize their design.

In the PAT Project, we have developed an annotation system in ELAN (Version 5.2, 2018) using an existing annotation scheme for written first-aid instructions (Van der Sluis et al. 2017) to which film-specific annotation categories have been added.

This poster presents how this annotation scheme can be used for a functional analysis of first-aid videos. We used a corpus with 15 videos from different organisations concerning first-aid procedures where a victim needs to be moved: Dragging (i.e. Rautek from the Ground, Rautek from a Car Seat) and Turning (i.e. Recovery Position, Prone-To-Supine Roll).

Our systematic annotation shows how features (e.g., voice-over text, use of stills, film techniques, and added elements) are used in various kinds of action presentations and offers directions for future experiments with viewers and users in actual training situations to test their functionality.

RESEARCH QUESTION

How are language, image, and sound used in first-aid instruction videos about dragging and turning victims?

METHOD

• Development of annotation scheme based on Borger (2018)
• Implementation in ELAN 5.2
• Pilot Study to validate the annotation scheme
• Corpus selection (15 videos: 7 for Dragging and 8 for Turning)
• Corpus annotation with control and reconciliation cycles by two annotators
• Quantitative and qualitative corpus analysis (ongoing)

RESULTS

- The number of preparatory and closing actions depends on the task; they are presented in text and in image.
- We found hardly any conditional or alternative actions.
- Most action presentation concern the action itself (process); in the images, we also find some result presentations (often in addition to a prior process presentation).
- A variety of image techniques are used to present control information.
- Most types of control information occur only in text; only Manner and Warning are used in images.

REFERENCES


Screenshot of Annotation in ELAN

RAUTEKGREP

RESULTS

- Action Types: The number of preparatory and closing actions depends on the task; they are presented in text and in image.
- Action Status: We found hardly any conditional or alternative actions.
- Action Aspect: Most action presentation concern the action itself (process); in the images, we also find some result presentations (often in addition to a prior process presentation).
- Control Information: Most types of control information occur only in text; only Manner and Situation Sketch occur in the images.
- Image Techniques: A variety of image techniques are used to present control information (e.g. Split Screen, Lines) or to aid the flow of the video (Transitions between shots).