ARTT – A TOOL FOR TRANSCRIBING AND ANALYZING VIDEORECORDED INTERACTION

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Background

This paper discusses a tool for analysing video data utilized in a research project on interaction and learning in instrumental teaching. The paper will discuss the design of the research methods in the project, focusing on close-up transcription of multimodal teacher-student interaction and systematic analysis of patterns of interaction and learning.

Aims

In the main study, 12 hours of video recorded interaction in instrumental lessons in high schools and teacher-training colleges in Sweden will generate three levels of results. A detailed micro-level transcription of speech, music and gestures will be analysed, for interpretation on a macro-level. Theoretical concepts from different, yet compatible, fields will be applied on each level.

Main Contribution

The large amounts of data generated, together with a systematic representation, description, analysis and interpretation create the need for an efficient tool to handle the data. The tool will render it possible to view the digital video on the computer screen, synchronised to a spreadsheet containing connected fields for transcribing and coding interaction in different modalities. The spreadsheet will be programmed to facilitate the recognition of patterns in the interaction, as well as more quantitative modes of output.

Implications

An ambition in the project is to make the research process transparent, in order to facilitate critical reading, as well as reproduction of the study. This also reflects an ethical ambition to aid in following the transformation of the actions of the informants through the processes of transcription and analysis, to the presentation of results and discussions of implications for practitioners. Another ambition is to make research related methods accessible to teacher-training programs, professional development programs in schools, as well as to practitioners and an interested public. This is an important reason for developing a tool for analysis utilising widespread office software, rather than a dedicated video analysis software package.