

## **Towards Web Services for Speech Recording and Annotation**

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### **Abstract**

The BAS has created a number of highly innovative, technologically challenging, and large speech databases. Examples are Verbmobil (map task dialogs for automated translation), SpeechDat and SpeechDat-Car (databases for telephone and in-car speech recognition) SmartKom (multimodal information retrieval), Ph@ttSessionz (Internet-based recordings in public schools in Germany), and numerous large-scale speech databases for industrial applications.

At the workshop, I will present a phase model for the creation of speech databases, analyse the workflow and formulate requirements with respect to data structures, tools and data formats.

I argue that a paradigm shift is necessary, away from applications and towards services. Traditionally, elegant and powerful tools have been developed and are widely used in the community; however, although these tools provide data import and export formats, they are ignorant of other processing steps in the workflow. In our approach of web-based recording and annotation, the underlying data structures model the workflow and thus allow a smooth flow of data through the system; the functionality is implemented by exchangeable and configurable plug-ins which are tailored to a particular task, sharing the same data structures.

Time permitting, I will present our WikiSpeech system for web-based recording and annotation, and samples from our VOYS project in Scotland.