An Edinburgh Speech Production Facility

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This unique facility is designed for the collection of articulatory and acoustic data from two synchronised dialogue participants, or single speakers. It will be open to the international research community for funded use as of September, 2010. Services will include data collection (preparation, sensor attachment, and recording), sensor position estimation at each sample point, head movement correction, synchronization (articulation to acoustics; speaker to speaker), and data archiving. The first product of the facility is a corpus of recorded dialogue, also available in September, 2010.

2.1 Sensor Positions

Sensors were attached behind the ears, to the bridge of the nose, to the upper jaw, lower jaw, upper lip, lower lip, tongue front, tongue mid and tongue back.

2.2 Data Analysis

Data analysis software (Articulate Assistant Advanced, EMA module) has been commissioned from Articulate Instruments Ltd. (2009). This software allows data visualisation, annotation and measurement extraction. It is user-friendly and does not require programming skills. The user interface provides a common platform for EMA, EPG and Ultrasound data. Analysts need only master one programming language and a few lines of code to use the software. The software allows data visualisation, annotation and measurement extraction. It is user-friendly and does not require programming skills. The user interface provides a common platform for EMA, EPG and Ultrasound data. Analysts need only master one programming language and a few lines of code to use the software.

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References

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