phrases.

The recall is measured with the following formula:

$$\text{Recall} = \frac{tp}{tp + fn}, \tag{1}$$

where tp stands for true positives, that is, the number of phonological phrase boundaries correctly found within 150 ms of the original one in the reference; fn stands for false negatives, that is, the number of missed phonological phrase boundaries (present in reference but not detected).

Precision is measured as:

$$\text{Precision} = \frac{tp}{tp + fp}, \tag{2}$$

where fp stands for false positives: phonological phrase boundaries detected where they should not be according to the reference, or more than 150 ms apart from reference phonological phrase boundary.

The recall of phonological phrase alignment-based prosodic segmentation was 82.1%, the precision was 77.7%.

The average time deviation (σ_t) of segmentation for phonological phrases was measured for true positives as:

$$\sigma_t = \frac{1}{tp} \sum_{i=1}^{tp} \left| t_i - t_i^{ref} \right|, \tag{3}$$

where tp stands again for the number of phonological phrase boundaries correctly found within 150 ms vicinity of the reference boundary. t_i is the detection time of the i^{th} phonological phrase boundary, t_i^{ref}

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THE PROS

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