

USING LYRICAL DURATION FOR AUTOMATIC LYRICS-TO-AUDIO ALIGNMENT IN CLASSICAL TURKISH MUSIC

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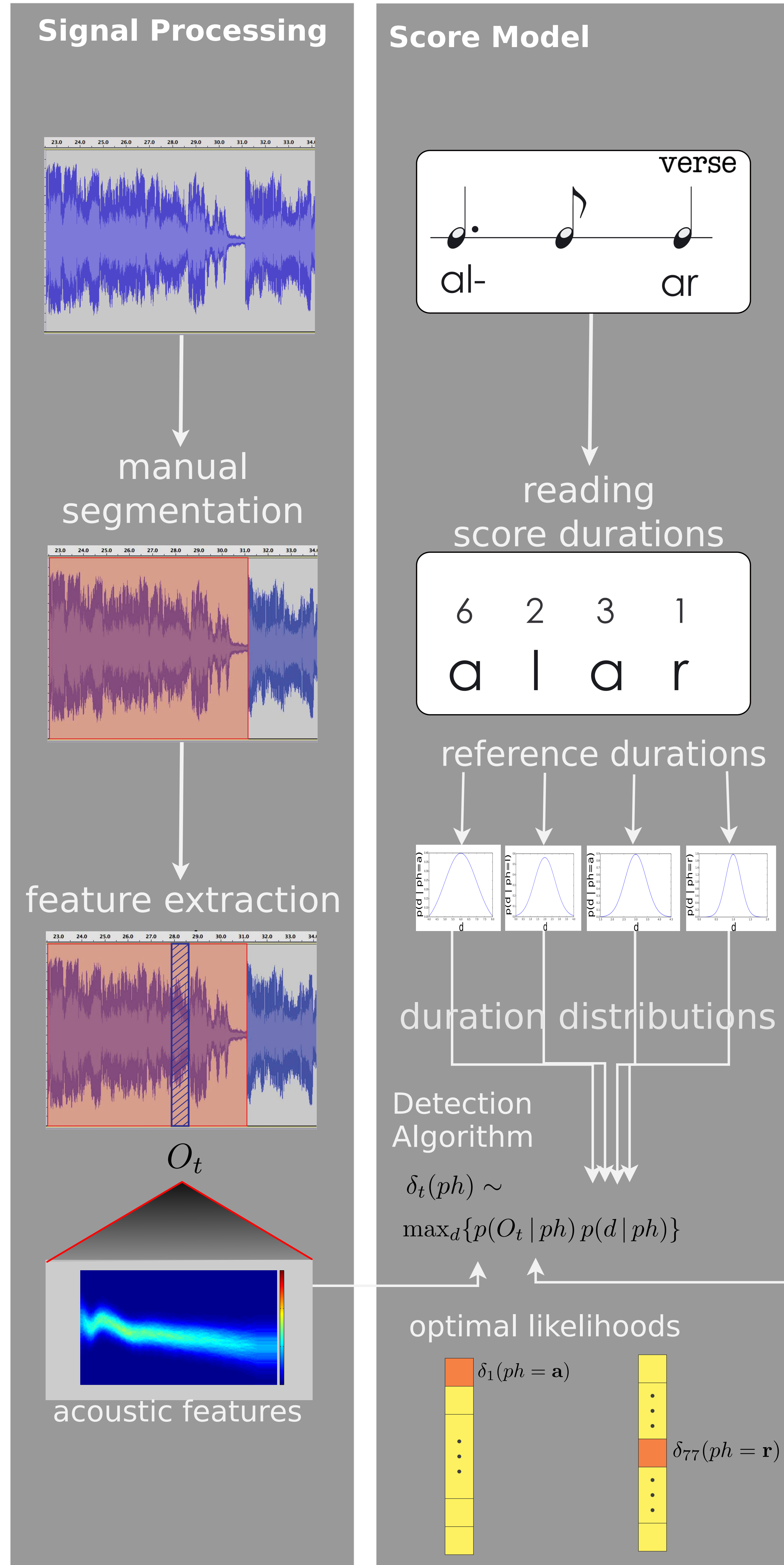
Abstract

- automatic synchronisation of sound and textual lyrics on lyrical phrase level
- extends a speech-to-text alignment approach
- explicitly models sung vocal durations
- evaluated on polyphonic and acapella recordings from classical Turkish music

Motivation

- automatic generation of Karaoke
- enables navigation-by-lyrics playback (available e.g. in Spotify and Deezer)
- lack of reproducible research on the topic
- no work on lyrics-to-audio alignment on non-eurogenetic music

Approach



Dataset

Training Corpus

~500 minutes Turkish speech

Test Corpus

12 recordings, ~18 mins

- original from

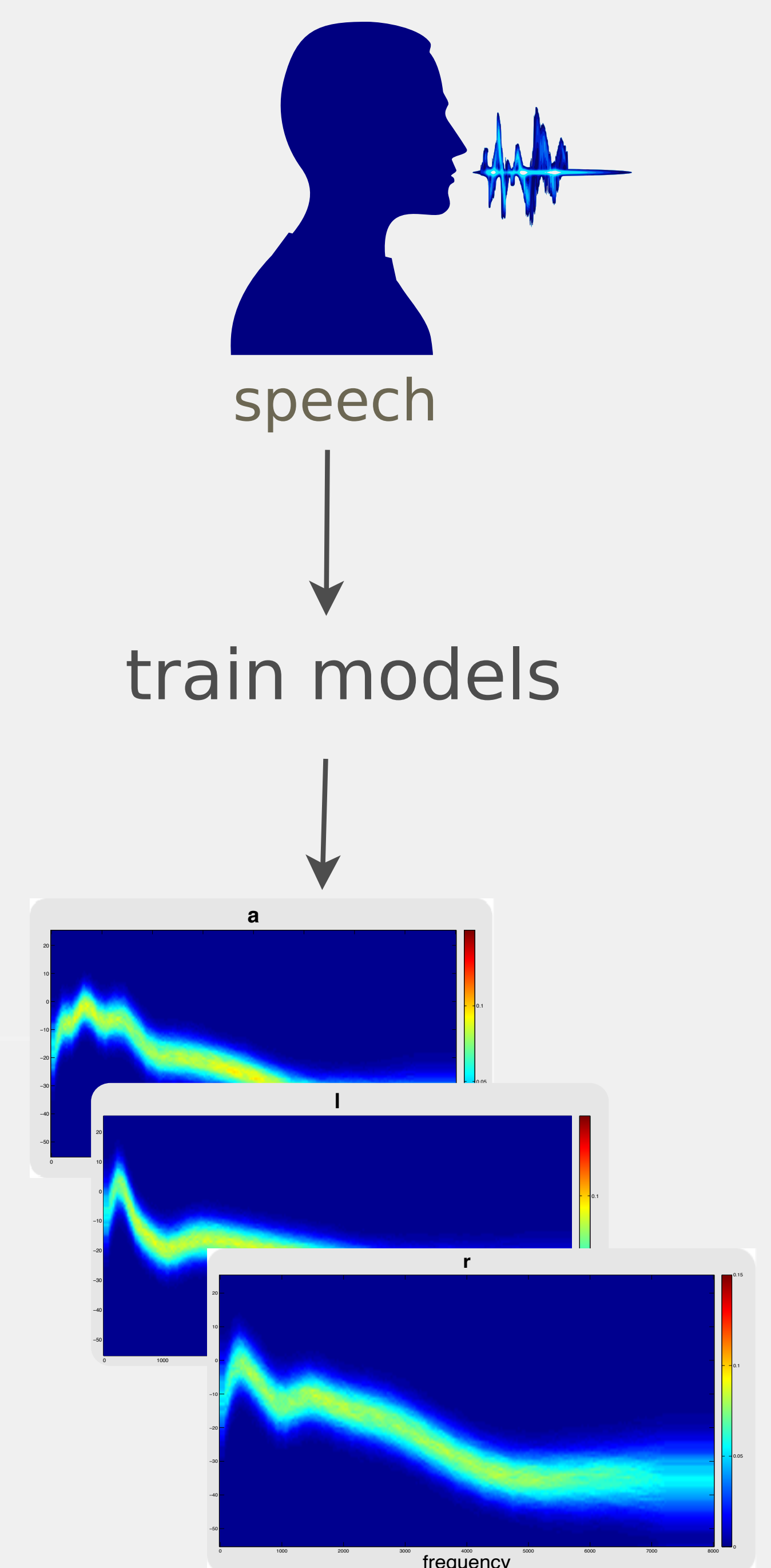


- especially recorded acapella versions

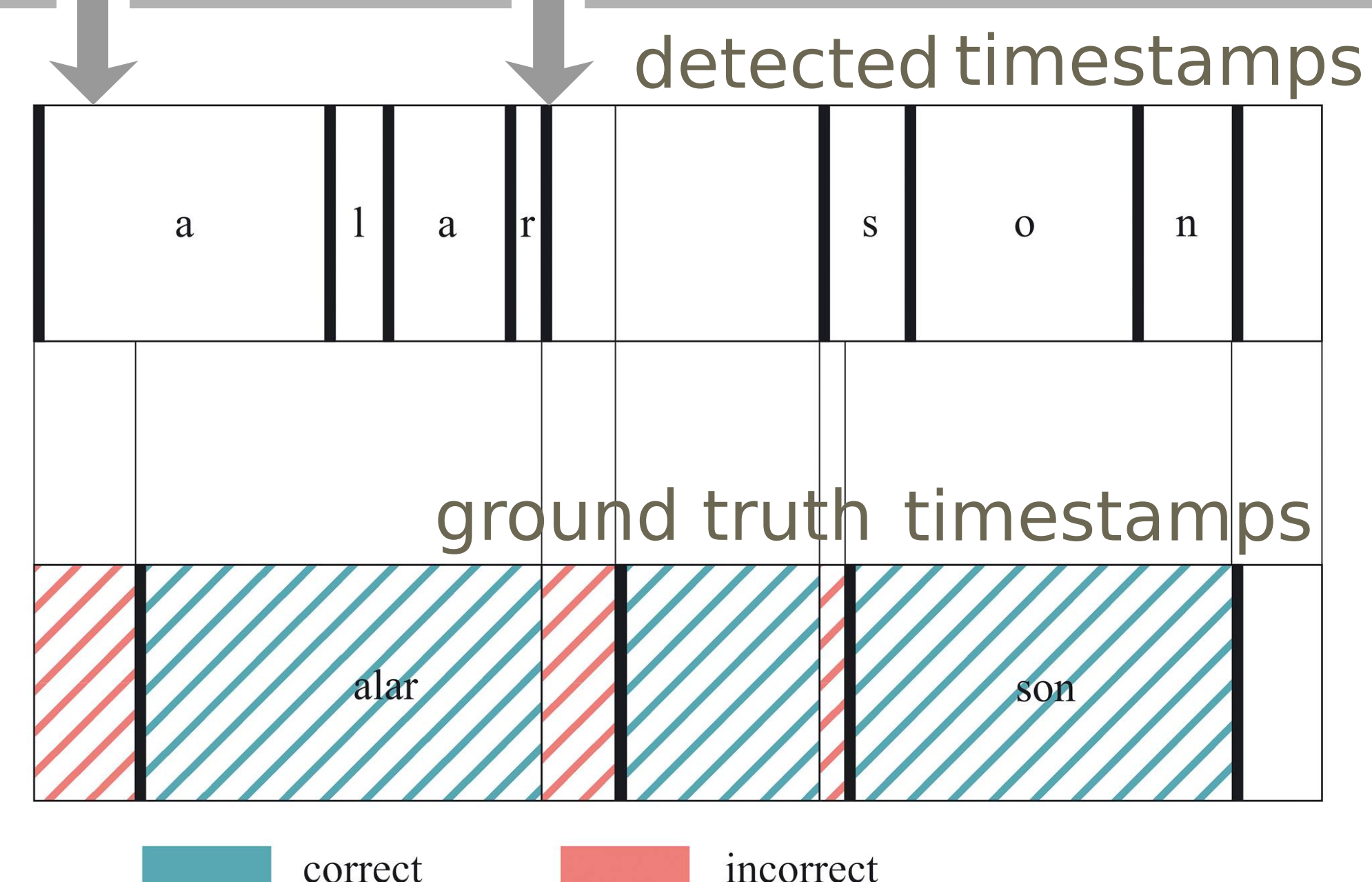
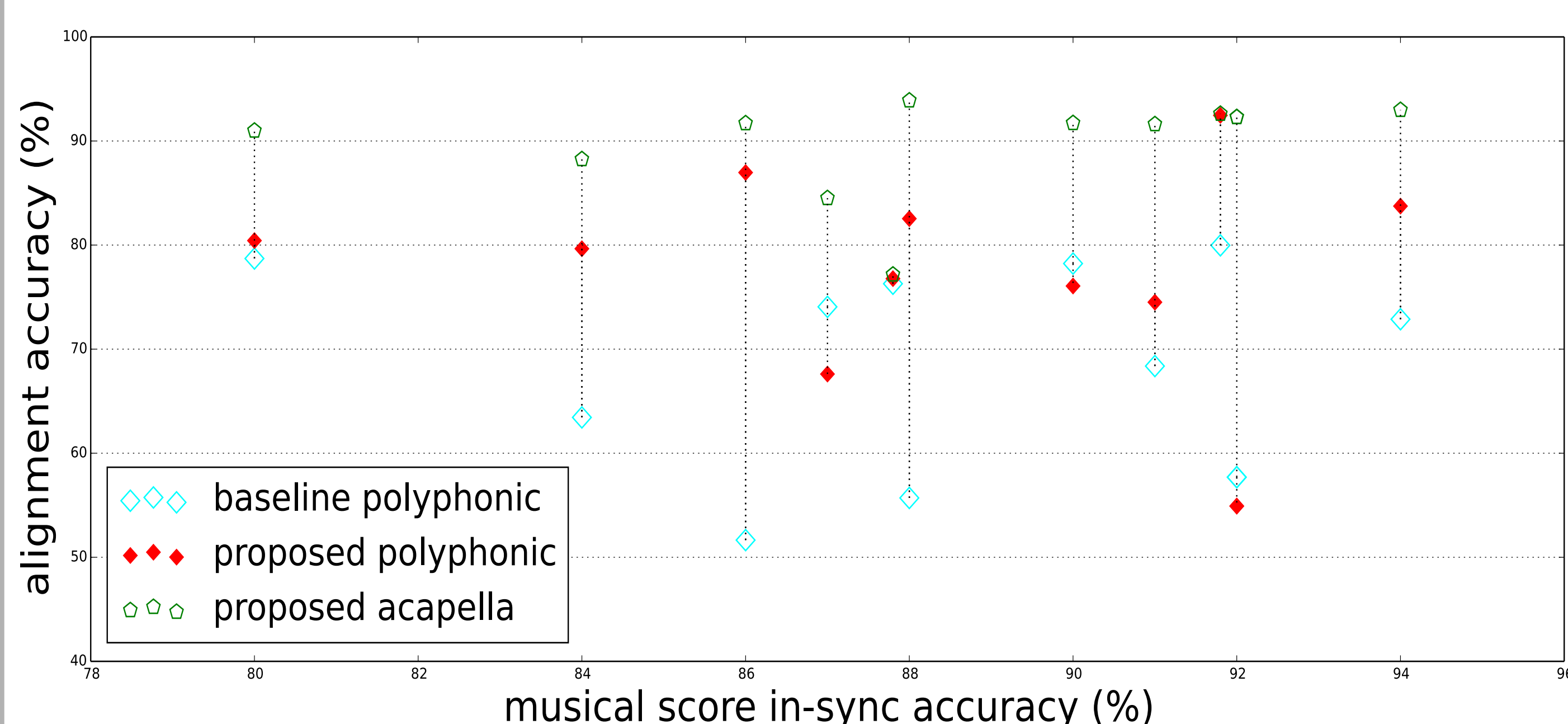


<http://dunya.compmusic.upf.edu/makamplayer/>
listen to dataset

Acoustic model



Results



<https://vimeo.com/121270319>
example result



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