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Vowel Detection Using a Perceptually-Enhanced Spectrum Matching
Conditioned to Phonetic Context and Speaker Identity

Hamidreza Baradaran Kashani , Abolghasem Sayadiyan ,
Hamid Sheikhzadeh

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Highlights

- We address the vowel detection issue by using a new model consisting of some proposed components called Matched Filters (MFs).
- The MFs are extracted by applying a series of perceptually-based processing operations to the voiced speech spectra.
- Conditioning the MFs to phonetic context and speaker identity is suggested for designing the MF-based model.
- The vowel landmarks are extracted as significant peaks of the temporal contour generated by the proposed model.
- The effectiveness of the proposed method is demonstrated in both clean and noisy conditions.

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