Abstract

The aim of this work is to introduce a primary research on Arabic audiovisual analysis. Each language has multiple phonemes and visemes and each viseme can have multiple phonemes. The first part focuses on how to classify Arabic visemes from still images, whereas the second part shows the variation of Pitch for each viseme. We haven’t taken co-articulation of visemes in context. To evaluate the performance of the proposed method, we collected a large number of speech visual signal of ten Algerian speakers male and female at different moments.
pronouncing 28 Arabic syllabuses. In our work, we demonstrate 11 final visemes representing the 28 consonantal Arabic phonemes.

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Index Terms

Computer Science Image Processing

Keywords

Arabic Visemes  Speech Recognition  Audiovisual Analysis  Pitch