



Two sepedi-english code-switched speech corpora

Thipe I. Modipa^{1,2} · Marelle H. Davel^{2,3}

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Abstract

We report on the development of two reference corpora for the analysis of Sepedi-English code-switched speech in the context of automatic speech recognition. For the first corpus, possible English events were obtained from an existing corpus of transcribed Sepedi-English speech. The second corpus is based on the analysis of radio broadcasts: actual instances of code switching were transcribed and reproduced by a number of native Sepedi speakers. We describe the process to develop and verify both corpora and perform an initial analysis of the newly produced data sets. We find that, in naturally occurring speech, the frequency of code switching is unexpectedly high for this language pair, and that the continuum of code switching (from unmodified embedded words to loanwords absorbed into the matrix language) makes this a particularly challenging task for speech recognition systems.

Keywords Code switching · Speech corpus · Multilingual speech recognition · Sepedi

1 Introduction

Many bilingual and multilingual environments are characterised by the presence of one dominant language or lingua franca and a number of other, typically diverse languages. The dominant language is often a language that is widely spoken, such as English or French. Speakers whose primary (or *matrix*) language is one of the other – often smaller, in terms of number of first language speakers – languages used in the presence of a dominant language, typically use words from the dominant language when they converse in the matrix language.

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A Prepared Speech In Sepedi

**John Conteh-Morgan, Tejumola
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A Prepared Speech In Sepedi:

Adopting the Tune of Term: An Mental Symphony within **A Prepared Speech In Sepedi**

In some sort of eaten by monitors and the ceaseless chatter of instantaneous connection, the melodic elegance and psychological symphony produced by the prepared word often fade in to the backdrop, eclipsed by the relentless noise and interruptions that permeate our lives. Nevertheless, nestled within the pages of **A Prepared Speech In Sepedi** a marvelous fictional prize overflowing with raw emotions, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, that interesting masterpiece conducts visitors on an emotional trip, well unraveling the concealed tunes and profound influence resonating within each carefully constructed phrase. Within the depths with this poignant review, we will explore the book is central harmonies, analyze their enthralling writing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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