



## Two sepedi-english code-switched speech corpora

Thipe I. Modipa<sup>1,2</sup> · Marelle H. Davel<sup>2,3</sup>

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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.

✉ Thipe I. Modipa  
thipe.modipa@ul.ac.za

<sup>1</sup> Department of Computer Science, University of Limpopo, University Road, Sovenga, Polokwane, South Africa

<sup>2</sup> Centre for Artificial Intelligence Research (CAIR), National Institute for Theoretical and Computational Sciences (NITheCS), Pretoria, South Africa

<sup>3</sup> Faculty of Engineering, North-West University, Potchefstroom, South Africa

# Translate Figures Of Speech In Sepedi

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## **Translate Figures Of Speech In Sepedi:**

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the original hypothesis that the specific characteristi      **Connecting Cultures** Emma Bainbridge,2013-09-13 This lively and incisive collection of essays from an international group of scholars explores the interactions between cultures originating in Africa India the Caribbean and Europe Those interactions have been both destructive and richly productive and the consequences continue to trouble the living stream today Several of the essays focus on the continuing reverberations of political and cultural conflicts in post Apartheid Southern Africa including the presence in Britain of Zimbabwean asylum seekers Other authors discuss the ways in which Indian culture has transformed novelistic and cinematic forms A third group of essays examines the attempts of West Indian women writers to reclaim their territory and describe it in their own terms The collection as a whole is framed by essays which deal with discourses of terror and terrorism and how we translate and read them in the wake of 9 11 This book was previously published as a special issue of Third World Quarterly      Linguistics and Language Behavior Abstracts ,2002      **Debates of the National Assembly (Hansard)** South Africa. Parliament (1994-). National Assembly,1999      **The Subject Index to Periodicals** ,1919

## Unveiling the Magic of Words: A Review of "**Translate Figures Of Speech In Sepedi**"

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