



Two sepedi-english code-switched speech corpora

Thipe I. Modipa^{1,2} · Marelise 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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Sepedi Prepared Speech

Kathryn A. Davis, Prem Phyak



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Negotiating Language Education Policies Kate Menken, Ofelia Garcia, 2010-02-25 Bridging the divide between policy and practice this book explores how educators interpret negotiate resist and re create language policies in schools focusing on their central role in this complex and dynamic process Sociolinguistics and Language Education Nancy H.

Hornberger, Sandra McKay, 2010 This book provides an up to date overview of sociolinguistics including topics of nationalism and popular culture style and identity creole languages critical language awareness multimodal literacies classroom discourse ideologies and power across language education contexts ranging from the teaching of English as an international language to Indigenous language revitalization **Southern African Linguistics and Applied Language Studies** ,2008

Engaged Language Policy and Practices Kathryn A. Davis, Prem Phyak, 2016-12-08 Engaged Language Policy and Practices re envisions language policy and planning as an engaged approach drawing on and portraying theoretical and educational equity perspectives It calls for the right to language policy making in which all concerned communities parents students educators and advocates collectively imagine new strategies for resisting global neoliberal marginalization of home languages and cultural identities This book subsequently emphasizes the means by which engaged dialectic processes can inform and clarify language policy making decisions that promote equity In other words rather than descriptions of outcomes the authors emphasize the need to detail the means by which local regional actors resist and transform inequitable policies These descriptions of processes thereby provide all actors with ideological pedagogical and equity policy tools that can inform situated school and community policy making This book depicts ways in which engaged language policy embodies the intersection of critical inquiry participant involvement and ongoing engaged language planning processes It further offers an alternative to the traditional top down approach to language education policy making Engaged Language Policy and Practices is essential reading for scholars teachers students communities and others concerned with worldwide language and identity equity **Translanguaging in Higher Education** Catherine M. Mazak, Kevin S. Carroll, 2016-12-09 This book

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studies in a number of substantive areas psychological development social behaviour personality cognition and perception which covers theory and applications to acculturation work communication health and

Handbook of Speech-Language Therapy in Sub-Saharan Africa Ulrike M. Lüdtke, Edward Kija, Mathew Kinyua Karia, 2023-02-03 This book synthesizes research on language development and communication disability in Sub Saharan Africa and highlights best practices for providing speech and language therapy services to individuals with language communication and hearing disorders across the lifespan The book brings together a wide range of international contributions from various disciplines such as speech language pathology audiology developmental psychology language education social work neurology neuropsychology pediatrics linguistics pedagogy and phonetics to provide perspectives on problems challenges ideas concepts and models to serve the people in Sub Saharan Africa Key areas of coverage include Challenges for speech language therapists in the health sector Community awareness and the sustainable delivery of services Culture specific support of communication and language development in early childhood Malnutrition dysphagia feeding difficulties pediatric HIV and related issues Communication disability treatments including assessment and intervention augmentative and alternative communication AAC and issues specific to bilingualism and biliteracy Inclusive education of children with communication disorders with case studies from Rwanda Tanzania Kenya and South Africa The Handbook of Speech Language Therapy in Sub Saharan Africa is an essential reference for researchers professors and graduate students as well as clinicians therapists and other professionals in developmental psychology speech language pathology and therapy social work neuropsychology pediatrics special education community based rehabilitation and all related disciplines

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