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4.5.3 Shortcomings of the model; 4.6 Strengths - why the Fujisaki model was chosen for this study; 4.6.1 High degree of accuracy of generated f0 contours; 4.6.2 Superposition; 4.6.3 Selective concatenation with segments; 4.6.4 Resynthesis; 4.6.5 Replication; 4.6.6 Physiological justification; Swiss German; 5.1 Language use; 5.2 Existing literature on Swiss German dialects; 5.3 Previous work on Swiss German intonation; 5.3.1 Contributions to Swiss German Grammar; 5.3.1.1 Bern Swiss German; 5.3.1.2 Grisons Swiss German; 5.3.1.3 Valais Swiss German; 5.3.1.4 Zurich Swiss German; 5.3.2 MA Theses 1971-2005; 5.3.3 Fitzpatrick's (1999) "The Alpine Intonation of Bern Swiss German"; 5.3.4 Studies on Swiss Standard German; 5.3.5 Results from speech synthesis research; 5.3.5.1 Pauses; 5.3.5.2 Phrasing; 5.3.5.3 Timing; 5.3.5.4 Intonation; 5.3.6 Preliminary summary of previous work on Swiss German intonation; Methods; 6.1 Dialects chosen; 6.1.1 Brig - VS; 6.1.2 Bern - BE; 6.1.3 Chur - GR; 6.1.4 Winterthur - ZH; 6.2 Subjects chosen; 6.3 Data collection; 6.3.1 Recording devices; 6.3.2 Interview setting and material; 6.3.3 Interview effects; 6.4 Data preparation; 6.4.1 Transcription; 6.4.2 Segmentation; 6.4.3 Annotation; 6.4.3.1 Annotation on the syllabic level; 6.4.3.2 Linguistic variables; 6.4.3.3 Paralinguistic variables; 6.4.3.4 Non-linguistic variables; Application of the Fujisaki model; 7.1 Linguistic interpretation of the model components; 7.1.1 Fb; 7.1.2 Phrase component; 7.1.3 Accent component; 7.2 Parameter configuration; 7.2.1 Fb; 7.2.2 Phrase component; 7.2.3 Accent component; 7.3 Modeling; 7.3.1 Pre-processing; 7.3.2 Modeling procedure; 7.3.2.1 Modeling constraints for PCs; 7.3.2.2 Modeling constraints for ACs; 7.3.2.3 LPC-resynthesis; 7.3.2.4 Concatenation of commands with segments

Sommario/riassunto

Switzerland is renowned for having a diverse linguistic and dialectal landscape in a comparatively small and confined space. Possibly, this is one of the reasons why Swiss German dialects have been investigated thoroughly on various linguistic levels. Nevertheless, natural speech intonation has, until today, not been examined systematically. The aim of this study is to analyze natural Swiss German fundamental frequency behavior according to linguistic, paralinguistic, and extralinguistic variables, using statistical tests against the backdrop of detecting dialect-specific patterns as well as c