

# **An MPEG-4 HVXC Based Interspeaker Pitch Prediction for Voice Conversion**

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## **ABSTRACT**

A system for voice conversion is proposed which is based on the harmonic vector excitation coding (HVXC) speech coder of the MPEG-4 standard. In conjunction with a text-to-speech system (TTS) a multispeaker system can be realized without having recorded a costly database for each speaker. Additionally, the size of the speech database for the TTS standard speaker can be decreased by using the compression abilities of the HVXC. The main focus is on the conversion of the speaker-characteristic pitch contour. Four methods are compared and evaluated, among them a new approach of a linear-prediction scheme.