

A Voice Biometric Time Domain Approach

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Abstract

This paper presents an approach to speaker recognition, approach based on the DZ Time Encoded Signal Processing and Recognition (TESPAR) coding algorithm. The voice is one of the human features that may be used as a biometric verifier. TESPAR is a concept of approximation and coding of signals. Also, it can be used as a method of analyzing the voice signal. The application was developed in Matlab and it features a fully interactive GUI. Tests have proven a rough percent of 75% successful recognition rate.