

INTRODUCTION

SPERIA B: SPEAKER RECOGNITION, IDENTIFICATION AND AUTHENTICATION FOR BODO LANGUAGE.

Identification and Authentication are coherent controls associated to the system of accessing information. To develop a foolproof information security system is challenging and most significant. Along with the conventional methods and tools, use of another equally exiting tool is Biometrics. By capturing, analyzing and comparing some physiological, and/or behavioral characteristics of a person we can develop a secured system. Such characteristics are finger, palm, retina, heartbeat, face, signature and voice. In our research work SPERIA B is such a system that uses voice as biometric with reference to BODO language in a holistic three layered (multilevel) approach.

Through our work we condense some of the available literature on speaker recognition, identification and authentication in such a manner which will provide a comprehensive overall picture of speaker recognition, identification and authentication to the interested community.

Some of the uniqueness of this research work are:

1. Feature selection is done keeping in mind the overall characteristics of human voice, covering spectral, Acoustic and Prosodic features so that authentication is authentic and of high quality.
2. Feature vectors are rich in quality and quantity.
3. Chapter 7 part A and part B are arranged so; to draw a comparison between classical way and Artificial Neural Network based Authentication.