Speech Emotion Recognition using Support Vector Machine

International Journal of Computer Applications
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Number 20 - Article 2

Year of Publication: 2010

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Abstract

Automatic Speech Emotion Recognition (SER) is a current research topic in the field of Human Computer Interaction (HCI) with wide range of applications. The speech features such as, Mel Frequency cepstrum coefficients (MFCC) and Mel Energy Spectrum Dynamic Coefficients (MEDC) are extracted from speech utterance. The Support Vector Machine (SVM) is used as classifier to classify different emotional states such as anger, happiness, sadness, neutral, fear, from Berlin emotional database. The LIBSVM is used for classification of emotions. It gives 93.75% classification accuracy for Gender independent case 94.73% for male and 100% for female speech.

Reference

[3] Christopher. J. C. Burges, A tutorial on support vector machines for pattern recognition,


Index Terms

Computer Science Pattern Recognition

Key words

Speech emotion Emotion Recognition

SVM

MFCC and MEDC