

Abstract

Glottal inverse filtering and its application in automatic classification of diseases

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A short introduction to glottal inverse filtering (GIF) methods is given by first describing the history and the general benefits and drawbacks of GIF. The most common voice source parameters are then discussed. The use of GIF and voice source parameters computed with GIF in machine learning (ML) - based classification of pathological speech is then described based on a few recent studies conducted at Aalto University. In this part, we will report on our experiments on automatic detection of Parkinson's disease and heart failure from speech.