Abstract

In the realm of speech processing, pitch estimation is considered to be a very important tool for various applications in speech processing, thus many algorithms and methods have already been developed for pitch estimation. This paper presents a new and relatively simple method for estimating the pitch of a speech signal as compared to other algorithms and methods which
have been applied. In this method of pitch estimation, the speech signal is filtered and then passed as a trigger to a switch whose one input is a pulse generator and the other is a reference potential. The number of pulses generated will be proportional to the frequency of the speech signal.

**Reference**

- Sergio Roa, Maren Bennewitz, and Sven Behnke “Fundamental Frequency Estimation based on Pitch-Scaled Harmonic Filtering”, University of Freiburg Department of Computer Science.

**Index Terms**

Computer Science  
Signal Processing
### Key words

| Pitch estimation | Pulse Converter | Real-time Processing |