Abstract

Infant crying comprises a rhythmic alternation of cry sounds (utterances) and inspiration. A method for knowing the reason of baby’s cry is proposed using frequency analysis of the recorded voice. The analysis has been done by using Welch’s method and performing Fast Fourier Transform (FFT). The frequency analysis helps in finding the different tendencies of the
Fourier spectrum for different causes. To find the cry type, fundamental frequency is considered. The acoustical analysis of cry, it is found that the fundamental frequency f0 for cry due to pain is found to be around 400Hz. The male cry f0 is higher than the female cry mean f0.

Reference


Index Terms

Computer Science

Information

Technology
Key words

Frequency Analysis of cries
Neonates