Classification of clinical depression detection using acoustic measures in Malay speakers

(Conference Paper)

Abstract

Objective screening mechanism using paralinguistic cues to enhance current diagnostic on detecting depression is desirable, which resulted in the rise of research on this area. However, to date, there has been no research done using dataset of Malay speakers. This paper presented an acoustic depression detection classification using Linear and Quadratic Discriminant analysis with transition parameters and power spectral density as the acoustic features. Among the two features, power spectral density performed better, especially with the combination of band 1, 2 and 3 for both male and female data. As for the Transition parameters, we found that unvoiced feature performed best overall for both male and female, © 2016 IEEE.

Author keywords

clinical depression
discriminant analysis
power spectral density
transition parameter

Indexed keywords

Engineering controlled term: Biomedical engineering
Discriminant analysis
Power spectral density

Compendex keywords

Acoustic features
Clinical depression
Current diagnosis
Discriminant analysis
Paralinguistic cues
Quadratic discriminant analysis
Screening mechanism
Transition parameter

Engineering main headings

spectral density

ISBN: 978-1-46737391-1
Source Type: Conference Proceeding
Original language: English

DOI: 10.1109/ICEEBE.2016.7843221
Document Type: Conference Paper
Sponsors: EMJH/Humanitarian Activities Committee, IEEE Standards Association, Malaysia Convention and Exhibition Bureau, Publisher: Institute of Electrical and Electronics Engineers Inc.