Document details

Back to results | 1 of 1

Full Text | View at Publisher | ➡ Export | ➡ Download | ➡ Add to List | More... →

Proceedings - 2015 4th International Conference on Advanced Computer Science Applications and Technologies, ACSAT 2015

25 May 2016, Article number 7478752, Pages 245-250

4th International Conference on Advanced Computer Science Applications and Technologies, ACSAT 2015; Kuala Lumpur; Malaysia; 8 December 2015 through 10 December 2015; Category number P5790; Code 121882

EEG-based Emotion Recognition while Listening to Quran Recitation Compared with Relaxing Music Using Valence-Arousal Model

(Conference Paper

Al-Galal, S.A.Y.^a 🖾 , Alshaikhli, I.F.T.^a 🖾 , Rahman, A.W.B.A.^b 🖾 , Dzulkifli, M.A.^b 🖾

- ^a Dept of Computer Science, International Islamic University Malaysia, Kuala Lumpur, Malaysia
- ^b Dept of Computer Science, Dept of Psychology, International Islamic University Malaysia, Kuala Lumpur, Malaysia

▼ View references (19)

Relaxation and calmness are two emotions that people always seek for. One popular method people used to do in order to reduce their level of tension and pressure is **listening** to some types of relaxing music. On the other hand, **Quran** is Allah's words that are ultimately given to us human to benefit of. Although, Muslims are strongly believed that **listening** to **Quran** or reading it brings them to comfort, pleasure and confidence. Scientific evidence is still required to prove that scientifically. Human emotion can be recognized from voice, text, facial expression or body language. But those methods are susceptible to change and are not really accurate. Recently, electroencephalograms (EEG) allowed researchers to evoke the inner emotions. This paper aims to study human emotions while **listening** to **Quran recitation** compared with **listening** to relaxing music. To evoke emotions, some stimuli should be used, in this research we implemented International Affective Picture System (IAPS) database. And for the emotion classification technique we followed two-dimensional Arousal-Valence emotion model. Finally the emotion model was implemented to recognize four basic emotions Happy, Fear, Sad and Calm with an average accuracy of 76.81 %. The data collected while **listening** to **Quran** and music were tested and the result generally showed that both **Quran** and Music are classified more into positive valence. © 2015 IEEE.

Author keywords

Arousal; EEG; emotion; Quran recitation; Relaxing music; Valence

Indexed keywords

Engineering controlled terms: Bioelectric phenomena; Character recognition; Electroencephalography; Man machine systems

Arousal; emotion; Quran recitation; Relaxing music; Valence

Engineering main heading: Speech recognition

ISBN: 978-150900424-9 Source Type: Conference Proceeding Original language: English

DOI: 10.1109/ACSAT.2015.10 Document Type: Conference Paper

Sponsors: Publisher: Institute of Electrical and Electronics Engineers Inc.

Cited by 0 documents

Register >

Inform me when this document is cited in Scopus:

🕨 Set citation alert 💹 Set citation feed

Related documents

EEG-based music mood analysis and applications

(2013) Advanced Materials Research

Real-time EEG-based happiness detection system

Jatupaiboon, N., Pan-Ngum, S., Israsena, P. (2013) The Scientific World Journal

Authors' reply

(2011) British Journal of Psychiatry

View all related documents based on references

Find more related documents in Scopus based on:

Authors | S Keywords

View in search results format

References (19)