Abstract

Today web sites are designed in graphical mode for interaction with insufficient user assistance. Keen-sighted users can identify the content and quickly recognize relevant
information in Web pages. On the contrary, individuals with visual disabilities have to use screen-readers to browse the Web. In this paper, we address the problem of information display in a non-visual Web interface. Access is made using the notion of context by assisting through the audio support and embodying our approach, by providing the standard features of a screen-reader along with browsing through voice browser. However, when a user follows a link, it captures the context of the link using a simple topic-boundary detection technique, and uses it to identify relevant information on the next page with the help of screen readers, and navigation is done through the voice browser. In order to aid the visually impaired users with a complete user friendly browsing approach we permit the content to be known by the screen-readers and voice browsers for the purpose of navigation.

Reference


Index Terms

Computer Science
Data Mining
Key words

- e-content adaptation
- voice content
- content adaptation
- e-learning
- impaired assistance