Abstract

In this paper we present a Web Content Adaptation System for mobile devices. The system enables the presentation of Web content by considering the problem of small screen display of mobile computing devices, also independent-device access to web content is considered. The focus has mainly been on the adaptation of HTML web page content to make it viewable on mobile devices, constraint that no server-side content adjustments are assumed. The
Web Content Adaptation System

adaptation is done by using the re-authoring technique started by parsing the HTML web page and converting it to tree structure. This conversion will separate presentation from content which will be more efficient in dealing with content, then converting to XML document that is a well structured document. The result is a device independent user interface that could be shown on any device. The output shows TOC that consists of list of hyperlinks, each either the header of the web page or a title of a paragraph or using the first sentence elision as hyperlink and a link to image that will be resized to fit on mobile screen. A major advantage of this adaptation is to deliver content with multiple versions and XML/XSL transformations to a number of mobile devices and save time and power by eliminate scrolling vertically and horizontally the page content.

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Index Terms

Computer Science  Web Applications

Key words

Temperature sensor  chirped fibre Bragg grating
fibre optic sensors