Abstract

A Web page has huge information and the information in the Web pages is useful in real world applications. The additional contents in the Web page like links, footers, headers and advertisements may cause the content extraction to be complicated. Irrelevant content in the Web page is treated as noisy content. A method is necessary to extract the informative content and discard the noisy content from Web pages. An integration of textual and visual importance is used to extract the informative content from Web pages. Initially a Web page is converted in to DOM (Document Object Model) tree. For each node in the DOM tree, textual and visual importance is calculated. Textual importance and visual importance is combined to form hybrid density. Density sum is calculated and used in content extraction algorithm to extract the informative content from Web pages. Performance of Web content extraction is obtained by calculating precision, recall, f-measure and accuracy.

References

- Dandan Song, Fei Sun, Lejian Liao. &quot;A hybrid approach for content extraction with text density and visual importance of DOM nodes&quot;. In the proceedings of Springer Knowl Inf Syst, DOI 10. 1007/s10115-013-0687-x, Verlag London 2013.
- Kovacevic, M., Diligenti, M., Gori, M., &amp; Milutinovic, V. (2002). Recognition of common areas in a web page using visual information: A possible application in a page classification. In the proceedings of 2002 IEEE international conference on data mining (ICDM&amp;apos;02), Maebashi City, Japan, December.
- Lan Yi, Bing Liu, Xiaoli Li. &quot;Eliminating Noisy Information in web pages for Data Mining&quot;. In the Proceedings of ACM 1-58113-737-0/03/0008, SIGKDD. 03, August 24-27, 2003, Washington, DC, USA
- Liang Chen, Shaozhi Ye, Xing Li. &quot;Template Detection for Large Scale Search Engines&quot;. In the proceedings of ACM 1-59593-108-2/06/0004SAC&amp;apos;06 April 23-27, 2006, Dijon, France.
- Pinto D, Branstein M, Coleman R, Croft WB, King M, Li W, Wei X (2002) QuASM: a system

**Index Terms**

Computer Science
Information Sciences

**Keywords**

Web Content Extraction  Web content Mining  DOM tree  Vision based Page Segmentation.