

ABSTRACT

This thesis concentrates on designing a Hypertext Documents Structuring System (HDSS) which involves text structuring and manipulation. It deals with organizing alternative knowledge structures for a given text domain to simplify understanding of the input documents.

The HDSS is divided into two essential stages, a document preparation stage which converts the input text into a hypertext form using a phrase-extraction indexing method, and a designer/user implementation model. The implementation model of the system has two integrated parts: the first part is the designer model which is a document structuring part which involves constructing several hierarchical structures using the hypertext form produced in the first stage. These structures reflect the contents of the original text in a comprehensive linking form. The second part is the user model which provides knowledge presentation medium with several facilities to browse and access the designed structures.

The minimum requirements for the HDSS work are an IBM-XT or compatible, an EGA monitor, and an MS-DOS 3.3 version. The programming language of this system is Turbo Pascal 5.5 version.

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