Building a System based on Intelligent Agencies for Assisting in Classification and Circulation of Books and Periodicals Automatically

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 178
Number 9

Year of Publication: 2019

Abstract

This paper presents an intelligent system to assist librarians in classification and circulation of books and periodicals. The system is based on a database containing the categories of scientific departments in the Faculty of Specific Education. It is also contains knowledge base that includes most of the words related to these categories. The Distance Vector Classifier Engine is used for text pre-processing classification. K-Nearest Neighbor algorithm and Term Frequency – Inverses Document Frequency are used for classification books and periodicals. The proposed system has achieved accuracy reached to 94.3%.

References


5. SUMAN (S) and KARMARKAR (Debanshu). (2002) "The role of library classification in organizing the web". In Workshop on information resource management. PP . 1-3.


Index Terms

Computer Science

Automated Systems
Keywords

Artificial Intelligent, Intelligent Systems, Text mining, Classification of Books