

Information Retrieval

Design and Sources

Roslina Othman



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INFORMATION RETRIEVAL: DESIGN AND SOURCES

Editor

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12. STEMMING FOR DOCUMENT IN NON-ENGLISH DOCUMENTS

Roslina Othman and Ouahiba Saoudi

ABSTRACT

As the application of stemming techniques in the retrieval of English Language documents proven effective, researchers made attempts to apply them to many other languages aspiring towards improving the information retrieval effectiveness in those languages. This chapter surveys the various attempts which were undertaken to apply stemming strategies in some languages other than English. It uses literature analysis to provide a brief account of the finding of selected studies on the issues at hand. The main objective of the paper is to show the applicability of stemming strategies for non-English languages. The paper concludes that the application of stemming strategies in few other languages have enhanced the effectiveness of IR and improved both recall and precision. Furthermore, the literatures surveyed showed that the effectiveness of stemming strategies depends to some extent on the morphology, complexity, nature and characteristics of those languages survey.

12.1 Introduction

Stemming strategies were implemented for other languages that demonstrate morphological variations of words in information retrieval (IR), like French, Portuguese, German and Hungarian languages, specifically, languages that had not yet developed their standard language processing methods.