

Information Retrieval

Design and Sources

Roslina Othman



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INFORMATION RETRIEVAL: DESIGN AND SOURCES

Editor

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19. RETRIEVAL PERFORMANCE OF QURANIC TEXTS IN MULTI-SCRIPT ENVIRONMENT

Roslina Othman and Fauziah Abdul Wahid

ABSTRACT

This chapter presents on the retrieval performance of the *Quranic* texts in multi-script environment based on recall, precision and overlap. The results from this research were obtained in a semi-operational setting involving some degree of control particularly on the relevance judgment to ensure consistency. The results showed that the different versions of the translations and the different scripts enhanced precision and recall. However, items missed as computed through recall were due to transliterations and different version of translations. Quite high overlap reflected that issues related to transliterations were moderate.

19.1 Introduction

There were 50 queries derived from *Berita Harian* posted to *Rumi* Original and 50 queries formulated from *Utusan Melayu* to *Jawi* original. Recall, precision and overlap values were calculated in numbers, ratios and average of ratios for each query in each corpus. Results were interpreted based on the values ranging from high (0.75 – 1.00), moderate (0.50 – 0.74) and low (below than 0.50). However, any missed items in the computation of recall would be examined to identify the causes. As for precision and overlap, only those queries with low precision and low overlap would be examined.