ABTRACT

Nahwu and Sharaf is one of science that governs the formation of the structure of word correctly in a Arabic sentences. The type or classes of words are generally divided into three, namely Al-Harfu, Al-Ismu (noun/adjective) and Al-Fi'lu (verb). Types of the word that will be the object of this research is noun and adjectives. To determine whether the structure of nouns and adjectives written correctly can be determined by its characteristics.

In this research, nouns and adjectives will be verified by looking at the characteristics of the word. The method used is template matching. Template matching method is one of the techniques in digital image processing used to match each part of an image with image of the template (reference). Template matching methods often used to identify the image of the character letters, numbers, fingerprint and the other image matching application.

In this research, template matching method is used to verify the structure of forming nouns and adjectives in Arabic. Furthermore, testing the nouns and adjectives which are written correctly or incorrectly. Based on the test results, the template matching method yield an average accuracy of 90%.

Keyword *: nouns, adjectives, nahwu and sharaf, template matching*