Abstract

Ahmed Fahmy

A Qur’anic Code for Representing the Holy Qur’an (Rasm Al-'Uthmani)

Holly Qur’an must be written correctly and precisely without any modification, despite the fact that some characters used in Qur’an does not have a corresponding Unicode representation. The aim of this paper is building a system that translates the Holly Qur’an to Qur’anic code, this translation will be done on three levels, character level, word level, and phrase level. Character level will be translated by extracting all the Arabic characters in the Holy Qur’an with all diacritics available in the Holly Qur’an regardless the linguistic combinations, and adding new character that has a symbol in the Holly Qur’an (Rasm Al-'Uthmani) [1] and has no Unicode representation for it. Word level will be translated by extracting all the duplicated words, generate a special code for these words. Phrase level will be created by extracting all similar patterns of variable lengths using enhanced (Lempel, Ziv, and Welch) LZW data …