Utilization of Two Diacritics for Arabic Text Steganography to Enhance Performance

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Abstract—An improved Arabic text steganography method is proposed. It hides secret data into text cover media in two Diacritics chosen based on highest availability percentage among all Diacritics, which are eight in Arabic language. This utilization of Diacritics - or Harakat - for security purposes is benefiting from the natural existence of Diacritics as historical Characteristics of Arabic language, originated to just represent vowel sounds. The paper exploits the possibility of hiding data in two Diacritics, i.e. Fatihah and Kasrah, adjusting the previously presented single (Fatihah only) diacritic hiding scheme. This proposed two Diacritics stego-work is featuring higher capacity and security showing interesting promising results.

Index Terms—Arabic Text Steganography, Information Security, Diacritics Steganography

REFERENCES