

Abu Abbas O.,Nahar K., Tubishat M., “*ARAE Cipher System*”, Proceedings of ACIT’2007, Syria, 2007, p.p: 90-93

#### **ABSTRACT**

*Data encryption is the translation of data into a form that unintelligible without a deciphering mechanism. This paper is intended to introduce a new approach for encryption, ARAE cipher system. It uses Arabic letters and their diacritics for encrypting English messages and vice versa. A pseudo random generator is used to generate integer numbers to represent each character in Arabic language. The same numbers are used again after sorting them to represent the English characters. The conclusions that are extracted indicate the efficiency of ARAE system according to security and time performance.*

**Keywords:** *Encryption, Decryption, Pseudo Random Generator, Arabic Characters, RSA, Sorting Algorithm.*