



# MULTIMEDIA AND ITS APPLICATIONS

*Edited by*

AKRAM M. ZEKI



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Press

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## Arabic Text

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### Introduction

Text recognition is one of the most interesting subjects in language recognition. It was investigated and studied by several researchers who worked on characters in general that might be handwritten or typewritten. These researchers tried to cover diverse areas in this subject by discussing, analyzing, comparing and implementing algorithms for each phase of the recognition system. Although, researches conducted on Arabic text recognition are fewer when compared to those conducted in other languages e.g. Latin and Chinese. This could be due to the unsolved challenges in Arabic language, though it is now gaining interest from many researchers (Tagougui, Kherallah & Alimi, 2012).

Now, it is obvious that research on Arabic characters recognition is the beginning stage. As such, there is need for more recognition researches, more results and findings in order to fully explore this complex area. Nonetheless, there exist several papers, surveys, biography, and a state of the arts in Arabic character recognition in general and in sub-subject areas. They introduce techniques for each phase of the recognition system. This include preprocessing, segmentation, feature extraction and recognition phase.