

Abstract

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Arabic OCR System Analogous to HMM-Based ASR Systems Implementation and Evaluation

basic processes and modules deployed in such architectures (e.g. lines & words decomposition, features extraction, models parameters Selection, language modelling, .., etc.) to develop what is hoped to be a truly reliable (i.e. low WER, omni fontwritten, open-vocabulary, noise-robust, and responsive) Arabic OCR suitable for reallife IT applications. This paper extensively reviews the HMM-based approach for building Arabic font-written OCR 's in general, and our work in specific. It also reports about the experimental results obtained so far showing that our system outperforms its rivals reported in the published literature.