



Teaching Mobile Computing through Developing Educational Applications

Marco Aurelio Nuño-Maganda* Information Technology Engineering & Master in Engineering Departments *Universidad Politécnica de Victoria, Ciudad Victoria, Tamaulipas, México

** Bo

re

Introduction

Introduction

Mobile programming is an topic in computer science due to recented advances in mobile technology

- Flatbed scanners
- Commercial automatic scanners

In this work, an image processing system for automatic book segmentation is proposed.

- 1. Illumination System
- 2. Book Scanning Support
- 3. Camera
- 4. Processing Platform
- 5. Mechanical Page Turner

Tatar Cauraga/DrangaadCreatam ndf

14 de agosto de 2025

Processing steps:

- ** Pre-processing step: required in order to prepare the image to be analyzed: Image downsampling, color-conversion, filtering, morphological, edge detection
- ** Geometrical processing step: required to find the location of each book page. It includes: