

# EECS 22L: OCR Final Release

Prepared by: Che-Wei Chang, Yasaman Samei, and Prof. Rainer Dömer

March 17, 2014

The final deliverable in the OCR project is the release version of the OCR program for the Mr. Nob Ackup company, as well as the corresponding release version of the program source code and documentation.

In contrast to the previous alpha and beta versions, this release version should be complete and fully functional. In particular, we expect the final version to generate proper C code, so that his the company can efficiently convert the scanned images of printed source code back into compilable files.

Deliverables are evaluated based on the basic functions and advance options listed in OCR project handout and bonus points are added accordingly.

For full credit (100%), the binary package "OCR.V1.0.tar.gz" for the user should include the following file hierarchy:

## **README**

- author, version, date, general instructions, (list of limitations if any), ...

## **COPYRIGHT**

- author and copyright

## **INSTALL**

- installation instructions

## **bin/**

- binary directory
- **bin/ocr** - the executable OCR program

## **doc/**

- directory for documentation
- **doc/OCR.pdf**

For full credit (100%), the source code package for further developers should include the following file hierarchy:

## **README**

- authors, version, date, general instructions, (list of limitations if any) ...

## **COPYRIGHT**

- authors and copyright

## **INSTALL**

- installation instructions (how to compile, install, and test)

## **Makefile**

- top-level, tool-specific Makefile

#### **bin/**

- binary directory

#### **doc/**

- directory for documentation, report, etc.
- **doc/OCR.pdf**
- **doc/OCR\_Software.pdf**

#### **inc/**

- include directory, with all header file(s) or symbolic link(s) to header file(s)
- **inc/OCR.h**
- **inc/others.h**

#### **src/**

- source directory, with all source code files
- **src/Makefile** - Makefile for sources
- **src/OCR.c**
- **src/others.c**

#### **test/**

- test directory, with test setup for each of the pipeline stages' functionality and their separate inputs and outputs
- **test/test\_io.c** - check the read and write image functions
- **test/test\_preprocessing.c** - check preprocessing functions, such as image rotation
- **test/test\_cropping.c** - check cropping functions, such as character cropping
- or similar

Note that the source code package should include all files needed to build, install, and test the software. In particular, the toplevel **Makefile** should support the following:

```
% make
% make test-gui
% make test-io
% make test-preprocessing
% make test-postprocessing
% make clean
```