Graph Extractor Documentation

Abstract

Graph Extractor is a graph extracting tool from scanned PDF files which runs on Ubuntu Linux distributions. This document contains the user guide describing how to install and run the software and software documentation describing the algorithms, modules of the code/architectural diagram and test plan.

Contents

1. Installation Instructions

Graph extractor can be installed as an application with **graphical user interface** and as a **console application**.

1.1. Installing the GUI application

Note that installing the required libraries for the GUI application takes much longer time (typically 30 to 45 minutes) as compared to the console application. In case of any error in installation please switch to installing the console application.

1.1.1. Requirements

- **Operating System**: Ubuntu

- **Architecture Type**: 64-bit (preferably)

- **Dependencies**:

    - build-essential
    - libopencv-dev
    - tesseract-ocr
    - tesseract-ocr-eng
    - tesseract-ocr-equ
    - unpaper
    - imagemagick
    - qt5-default
    - qt5-qmake
    - qtbase5-dev-tools
    - libqt5webengine5-dev

1.1.2. Installation

- Open the terminal and set the working directory to the submission folder.

2. User Manual

3. Algorithm Description

4. Software Architecture

5. Test Plan

References