Key Questions: 29.08.2022

1. How can we detect Word Elements properly? Current Options: Use API, develop on our own AI. Any Idea?
2. What kind of Text detection APIs are there on the market?

What are the alternatives to Vision AI (Google)?

An analysis list on this topic, with open-source ones and commercial ones

3. Problem with Vision AI (Google)
    a. Bad Text recognition

        Q: How to build our own Text Recognition AI?

        What do we have to consider theoretically?

        What kinds of pre-defined models exist?

        What kind of data do we need to train it better?

4. What technology can we use to stabilize the layer on an identified element?

    (What kind of tracking technology) It is like AR filter on face with the feeling of
    a. Identifying
    b. Stabilizing

Presentations

Translue x HWR - Building A Text Recognition AI.pdf
Translue - Elaboration - 12.09.2022.pdf

Papers

Image Classification with Variable Input Resolution in Keras

Context-Free TextSpotter for Real-Time and Mobile End-to-End Text Detection and Recognition

STN-OCR: A single Neural Network for Text Detection and Text Recognition

Contextual Text Block Detection towards Scene Text Understanding

R-YOLO: A Real-Time Text Detector for Natural Scenes with Arbitrary Rotation

Look More Than Once: An Accurate Detector for Text of Arbitrary Shapes

Training CNNs using high-resolution images of variable shape

Enable Deep Learning on Mobile Devices: Methods, Systems, and Applications

Distilling the Knowledge in a Neural Network

Evaluating existing OCR tools:

MLKit OCR evaluation - March 2022

Punjabi Text Recognition System for Portable Devices: A Comparative Performance Analysis of Cloud Vision API with Tesseract - Aug. 2021

Which OCR toolset is good and why?A comparative study - Apr. 2020