

Final project proposal.

Title: Text recognition for information extraction from KZ passports.

Due: 7th April 2015

Group: ---

Introduction.

Each day people use their personal documents, such as identification cards, passports, etc. to accomplish various actions. However, the task of putting the required text from the documents into a computer is time-wasteful. Example of this could be checking and validation of the passenger's personal information at the airport check-in from a passport. This often results in queues. With automatic character recognition algorithms, these processes can be quicker, thus saving time for clients by serving them faster. Therefore, the purpose of our final project is to implement an algorithm which will recognize the required information(Name, Surname, Passport number etc.), extract it and use it for further needs. The scope of our project will be limited to cover only Kazakhstani passports.

Scenario.

User gives his passport to a worker of an airport. Worker takes a picture of passport using web camera. Then all the necessary information is extracted from the image and put to the necessary fields.

Implementation.

We will do optical character recognition with opencv. We haven't done deep search on how to do it, however as the text is printed and not handwritten we believe it won't be as hard as recognition of handwritten text, as in that case we would need to use some machine learning techniques.