**Beer Sheva Campus**

**Summary Evaluation Platform**

**Master's Degree Final Project**

**Submitted in the Department of Software Engineering**

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# Abstract

We present here a platform for summary evaluation metrics. The purpose of such platform is to be a useful tool for the researchers in the field of text summaries. Although summary evaluation metrics come with appropriate tools (scripts) and the result could be analyzed within different data manipulation tools as Microsoft Excel or even with languages as R but taking the evaluation process under one umbrella will simplify and automate the analysis of the summary systems by our believing.

# 1. Introduction

For a person working within some field the time has a crucial meaning. No one of us wants spending a time on the same tasks again and again. The purpose of many systems is to automate such the process. For instance, no one expects that bank teller will run SQL queries to update the deposit. As well, no one expects from us working only with command line while solving our problems on computer. Today we have a plenty of tools for automating different kinds of tasks. We believe that researchers in text summarization should not be an exception. Thus, a tool for automating researcher tasks could help her for the better understanding and evaluating the results.

The word “platform” in software world has different meanings. We think that most of us agree that when one says “cross-platform software” her meaning is that the software is not dependent on the current operating system and/or chosen hardware. The expectations in such case are that the software will work similarly with a variety of operating systems or hardware. From the other hand, when one says, for instance “we have an enterprise office platform software” the meaning in such case is not related neither to operating system nor to the APIs of such office software. The meaning is the group of programs for solving a particular business issues. As another example, when the programmers say that they chosen a platform that might mean that the meaning of such is a software library or framework. The word “platform” in software is highly context dependent.

To make things less ambiguous, the word platform in our case should be defined. When we say platform, we mean:

1. Concrete GUI application that evaluates several metrics for the text summaries
2. Command line tool if one needs to automate his tasks
3. A software library that could be used by 3rd parties

To be honest, the project had started as the library in mind and latter it morphed into much more massive GUI application. Hence, we believe that it was a good migration since the library and the API were tested by ourselves. We cannot argue that the core library for metric evaluation is one of the best. However, we can argue that for us it was a right vision both for the code management and modeling the process of evaluation itself. The core library will be explained within this text for those who would like to use the platform as the library.

The text will be divided into a couple of part. The first part will describe the task of summary evaluation in general. The second part will give the overview of the program internally. The third part will explain the usage of the GUI application. The last part will be the experiments with the system. Although we are trying to not make the interdependencies within these parts but for better understanding of the system reading it in novel form give the better picture.