Università
della
Svizzera
italiana

**Facoltà
di scienze
informatiche**

Information Retrieval

Academic Year 2020-21

Course Project N.2: Video Search Engine

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For this assignment you will work alone to implement a working prototype of an information retrieval system for a specific task and user needs. The goal of this assignment is to apply the concepts and tools you have learned in the class to a practical, real world, application.

Description

Video Search Engine: a user wants to search in a repository of videos like Vimeo. He would like to submit some keywords to search for videos. You have to build a system that crawls Vimeo for some very specific video topics (at least 10 topics like for example beaches, car races, England, etc.) and then allows user to search for them based on their textual description. The system has to provide an interface for searching, browsing, and presenting the results. Besides that, the system should have the following search feature:

- Pseudo Relevance Feedback: a list of videos is retrieved in response to a user query but it is not presented to the user. Instead, top videos are considered to be relevant to a query and based on this information the results list is updated. Only then the search results are presented to the user.

Submission procedure and evaluation

An important step is the evaluation of your tool. Three students of the class, of your choice, will act as test users of your system and help you in evaluating your system from the point of view of the user experience. System evaluation (i.e. recall and precision) is not required. Please, coordinate with the other groups in order to meet the deadline.

You have to produce a report (max. 10 pages, including cover) of your work and of the evaluation. It will contain a concise explanation of how you tackled the design, implementation and evaluation of the system. The code of the project and the report need to be submitted via iCorsi by end of day 11th December.