

Computer & Systems Engineering Department



BARDI: A Real Board

Graduation Project

Raymod Milad Guirguis

Project's Abstract

Education is very important for our lives. Countries flourish mainly on Education. BARDI is solution to take education to the next level especially in Egypt. BARDI is a low-cost interactive smart board that can save time and effort of instructor and students. BARDI supports many features for better interaction with instructors and students. BARDI offers gestures and speech recognition which make the education process easier, Also, BARDI can be extended so that more functions can be added easily to it for even better. Experiments show that BARDI is effective and smart enough to do its work intelligently,



KINSTRUCT (3D indoor modeling and construction)

Graduation Project

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Project's Abstract

Sentiment analysis can be defined as the task of determining the semantic orientation of an opinion holder on an object or a feature of an Object. Semantic orientation is positive, negative or neutral. Subjectivity and Sentiment analysis has been gaining lot of attention in the last few years due to the important role that it can play in many different areas among which are marketing and politics. The wide spread use of microblogging services, has also led to a wide spread availability of opinionated posts. While there is no shortage in literature of works addressing English subjectivity and sentiment analysis, there is only a handful of published works addressing Arabic subjectivity and sentiment analysis.

The objective of this project is to create a subjectivity and sentiment analysis tool for analyzing Arabic tweets written in the colloquial Arabic. The proposed tool is based on a hybrid approach that combines machine learning and lexicon-based approaches.

KINSTRUCT (3D indoor modeling and construction)

Supervised

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Graduation Project

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Project's Abstract

Nowadays, the Web has become the main source of information where lots of terabytes of data are added every day in all fields. With this increase of data on the Web, there is a critical need of semantic search facilities that satisfy user demands with high accuracy. Also, Information does not exist on the web in all natural languages. A user may not find the answer that he/she is searching for, because it simply exists in another language.

In this project we propose a system that can help in solving the above problems. We propose "Found it" which is a cross lingual information retrieval (CLIR) system. Our system integrates machine translation techniques and information retrieval techniques. It takes an Arabic query, translates it into English, applies a semantic search in a collection of English documents and returns relevant results in Arabic.

Found it!

Cross Lingual Retrieval System

Saturday July 12, 2014 | 10:30 AM | The Library, Admin Building



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