

SIGNIFICANT ITEMS BASED TWO-WAY FILTERING SUGGESTION SCHEME

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Abstract— *The last decade has witnessed a tremendous growth of Online services as a major technology for sharing data, computing resources, and programs on the Web. With increasing adoption and presence of Online services, designing novel approaches for efficient and effective recommendation has become of paramount importance. In existing services discovery and recommendation approaches focus on keyword-dominant Web service search engines, which possess many limitations such as poor recommendation performance and heavy dependence on correct and complex queries from users. Recent research efforts on Online service recommendation center on two prominent approaches: collaborative filtering and content-based recommendation. Unfortunately, both approaches have some drawbacks, which restrict their applicability in Web service recommendation. In proposed system for recommendation we will be using Agglomerative Hierarchal Clustering or Hierarchal Agglomerative Clustering for effective recommendation in this system. Our approach considers simultaneously both rating data (e.g., QoS) and semantic content data (e.g., functionalities) using a probabilistic generative model.*

Keywords—*collaborative filtering, content based recommendation, Agglomerative Hierarchal Clustering, rating data.*

INTRODUCTION

These days Robotics has become part of today's communication & communication in return is a part of technological advancement, so I have decided to work in the field of ROBOTICS, and design something which can

make human life easier. There are various kinds of mobile robots that can be grouped as several categories like wheeled robot, crawling robot and legged robot. It is a part of Automation where Robot is shown to have sufficient intelligence to deal with most parts. Wall-following, detection of edge and line following are some of the very famous methodologies used for robot navigation.

The design analysis of a android "Pick and Place" Robotic vehicle has been presented in this paper. This work unravels the fact that man would always want to adhere to safety precautions at workplace and even in its environment, to be able to handle some specific tasks, like sending the robotic vehicle to pick and place the goods in godown. A typical Robotic Vehicle is capable of traveling over various terrains and traversing obstacles. In one example, the strategy in this work consist of a Robotic arm of five Degree of Freedom with its base resting directly on top of the vehicle, a body having four drive wheels coupled to the ends thereof. The wheels are selectively powered to propel the vehicle. The design methodology involves the hardware, software part and implementation of both designs. A prototype of the android Controlled "Pick and Place" Robotic vehicle was built to validate design specifications. The results obtained were very satisfactory. The use of Robots is highly recommended for Industries especially for safety and productivity reasons.

Existing system

The most fundamental challenge for the Big Data applications is to explore the large volumes of data and extract useful information or knowledge for future actions.

Major disadvantage of Web service discovery and recommendation approaches focus on either perishing Universal Description Discovery and Integration registries, or keyword-dominant Web service search engines.

In this approach which possess many limitations such as poor recommendation performance and heavy dependence on correct and complex queries from users.

PROPOSED SYSTEM

We proposed an Agglomerative Hierarchal Clustering or Hierarchal Agglomerative Clustering.

Clustering are such techniques that can reduce the data size by a large factor by grouping similar services together.

A cluster contains some similar services just like a club contains some like-minded users. This is another reason besides abbreviation that we call this approach Club CF.

This approach is enacted around two stages. In the first stage, the available services are divided into small-scale clusters, in logic, for further processing. At the second stage, a collaborative filtering algorithm is imposed on one of the clusters.

This similarity metric computes the Euclidean distance d between two such user points this value alone doesn't constitute a valid similarity metric, because larger values would mean more-distant, and therefore less similar, users. The value should be smaller when users are more similar.

PROBLEM STATEMENT

As an enhancement, the robot can be improvised to allow the user itself to decide if blank line used on white surface or the vice versa. Further, the user interface and the type of line can also be decided. Extra sensors like speed control, fire sensor, gas detectors can be added to the robot as per

requirements and can be internally coded. Position sensors can be useful in case the robot uses track of its line.

ARCHITECTURE

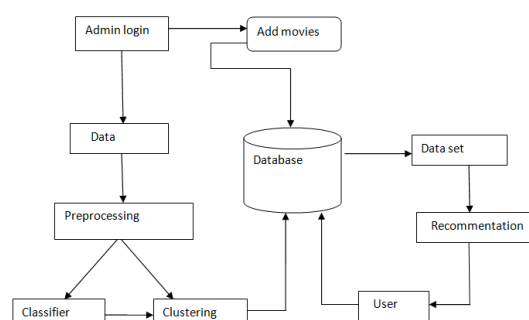


Fig.1. Architecture diagram

SOFTWARE TOOLS

After the block diagram, coding needs to be done. The software used for coding is eclipse and the language used for coding is —Java. Hadoop and Mahout is used for big data purposes.

CONCLUSION

We present a Club CF approach for big data applications relevant to service recommendation. Before applying CF technique, services are merged into some clusters via an AHC algorithm. Then the rating similarities between services within the same cluster are computed. As the number of services in a cluster is much less than that of in the whole system, Club CF costs less online computation time. Moreover, as the ratings of services in the same cluster are more relevant with each other than with the ones in other clusters. If we want, add the new movies with name, category and year.

FUTURE SCOPE

Yahoo!, Facebook, Twitter ,Baidu, eBay ,LinkedIn, New York Times, Rackspace, eHarmony, Power set Recommendation Engine Application of recommendation. Mobile application integration. Integration of Mahout, Graph lab and Google prediction based recommendation services. □ Cloud based recommendation Service.Integration with Database like Hive, Hbase, Mongoddb, Couch db Integration with Web Application like Jsp , Servlet Future enhancement. future movie recommender should be able to lead the users reasonably choose movie. To the end, we are hoping that through this study we can build the bridge among isolated research in all the other disciplines.

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