Abstract

This project's name is Kajabram, an application system that collects spatial information and user feedback on social networks via smartphones. It tries to remove unnecessary and unpleasant location information and suggest points of interest close to users using algorithms and spatial datasets. This system will offer users new places and events by calculating the similarity between users and considering user access conditions, environment, and time.

The design and implementation of this system can collect the user's spatial information from various sources. The user can use this system by using any desired source. Besides collecting location information from multiple sources, the system can store or update this information by monitoring location information via smartphones.

The purpose of building this system is to reduce the user search load to find places of interest. In addition to this system's value for users, this system can provide a platform for companies that need location information to advertise their products or transport fleet services that need traffic assessment information. To access this information. This location information can include the popularity of hotels and restaurants and entertainment venues, popular and busy places, and an estimate of the number of people in different parts of the city and areas with a high likelihood of an outbreak during the spread period. Infectious diseases.

Key Words: location recommender, location-based social network, collecting location information, storing location information

Amirkabir University of Technology
(Tehran Polytechnic)

Department of Computer Engineering

BSc Thesis

Designing and Implementing a Location-Based Social Network Recommendation System with Analysing User Behavior

By
Mohammad Ali Arabyazdi

Supervisor
Dr. Mohammad Rahmati

Advisor
Dr. Mohammad Rahmati

October 2020